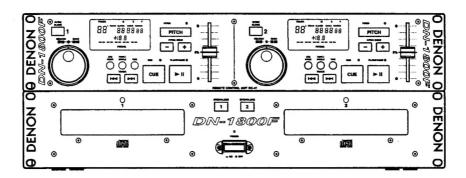
DENON

SERVICE MANUAL MODEL DN-1800F

DOUBLE CD PLAYER



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• Some illustrations using in this service manual are slightly different from the actual set.

NIPPON COLUMBIA CO., LTD.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

SPECIFICATIONS

GENERAL

Type:

Twin mechanism compact disc player with wired remote control

Disc Type:

Standard compact discs (12 cm and 8 cm discs)

Dimensions:

Installation:

Power Supply:

Player unit:

482 (W) \times 88 (H) \times 252 (D) mm (without feet) 482 (W) \times 88 (H) \times 62 (D) mm (without deet)

Remote control unit:

19-inch rack mountable Player unit:

2U

Remote control unit:

2U

Player unit:

6 kg

Remote control unit:

1.5 kg

U.S.A. & Canada model: 120 V AC

±10 %, 60 Hz

Europe & U.K. model:

230 V AC

±10 %, 50 Hz

Power Consumption:

17 W

Environmental Conditions:

Operational temperature: 5 to 35 °C (41 to 95 ±F)

Operational humidity:

25 to 85 % (no condensation)

Storage temperature:

-20 to 60 °C (4 to 140 °F)

AUDIO SECTION

Quantization:

16-bit linear per channel

Sampling Frequency:

44.1 kHz at normal pitch

Oversampling Rate:

8 times

Frequency response:

20 to 20,000 Hz

Analog output

Output Level:

20 V

Digital Output:

Signal Format:

SPDIF

Output Level:

0.5 Vp-p 75 Ω/ohms

Load impedone:

10 kΩ/kohms or more

FUNCTIONS

Instant Start:

Within 30 msec.

Variable Pitch:

±10 % or more

Pitch Bend:

±32 % or more

Search Precision:

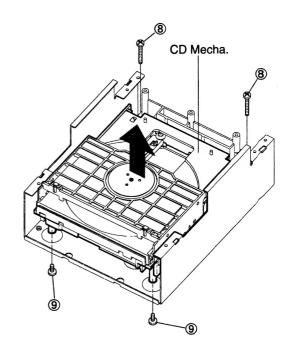
1/75 sec (1 subcode frame)

Max. Scan Speed:

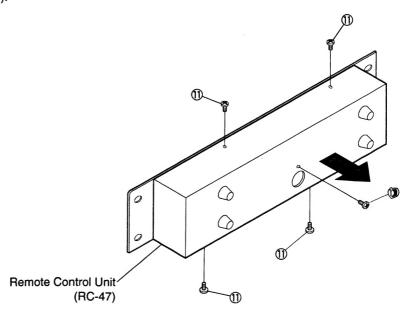
Over 20 times normal speed

CD Mecha.

- 1. Remove 2 upper screws ®, and 2 lower screws 9.
- 2. Detach CD Mecha.



Cover (Remote Control Unit) 1. Remove 5 screws (1 \times 1 and 4 \times 1).



CONFIRMING THE SERVO

CAUTION:

The Optical Pick-up used for CD player may invite defection by an external noise, such as electrostatic, etc., please pay the following attention.

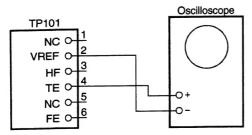
- 1. Use a conductive mat on a working table to avoid electrostatic charge.
- 2. A working personnel should use a wrist strap to ground human body.
- 3. Tools, etc., specially for a soldering iron must use with its tip grounded and without leakage of electricity. Utmost care must be taken to your clothes for electrostatic charging in a low humidity environment.

Required Measuring Implement

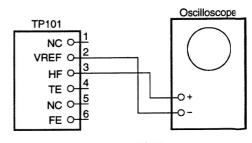
- 1. Dual trace oscilloscope
- 2. Reference disc (TCD784 or CO-74176)

1. Actuating the Service Program and Servo Confirming Method

- 1. Turn the power switch off.
- 2. While simultaneously pushing the CD1's PITCH button and CD2's OPEN/CLOSE button, turn the power on.
- Displayed indication is version number of microcomputer program.
 4 figures on the left are program version of remote control, and 4 figures on the right are program version of main body mechanism.
- 4. Press TRACK button. Display shows " 🖟 t" and each pressing of PLAY/PAUSE button opens or closes the tray.
- 5. As the tray opens, set the adjustment disc (TCD784 or CO-74176)
- 6. Press TRACK button (" \$\mathcal{G}_{\alpha}\)" is displayed), also, press PLAY/PAUSE button. Tracking error signal can be observed with the connection below. (Fig1)
- 7. Press TRACK button (" \$\mathcal{G}\eta\$" is displayed), also, press PLAY/PAUSE button. HF signal can be observed with the connection below. (Fig2)
- 8. Press TRACK button (" 🖸 4" is displayed), also, press PLAY/PAUSE button.
 By turning JOG DIAL servo automatic adjustment value can be called. (Ref. Table below)







Fi	g2

TRACK Portion Indication	Adjustment Item	Adjustment Value indication at MIN and SEC portions.
1	Focus Gain (FG)	154 ~ 804
2	Focus Balance (FBAL)	−125 ~ 125
3	Focus Offset (FOFS)	−35 ~ 35
4	Tracking Gain (TG)	102 ~ 645
5	Tracking Balance (TBAL)	−110 ~ 86
6	Tracking Offset (TOFS)	−15 ~ 15

^{*} When adjustment range exceeds, replace pick-up.

2. What is Service Program

Service program is a special program intended for confirming servo.

3. Contents of Service Program

While simultaneously pushing the CD1's PITCH and CD2's OPEN/CLOSE buttons, turn the power on. After actuating the service program, select an aiming process number with the TRACK +/-, SINGLE/CONT. button, JOG MODE button, and TIME button, and push the PLAY/PAUSE button to execute processing. The process number is then displayed on the TRACK indication portion.

	Work No. (TRACK Indication)	Function	Contents
	01	OPEN/CLOSE	Performs OPEN/CLOSE each time when the PLAY/PAUSE button is pushed.
	02	Tracking Error	Check tracking error signal, then performs the Automatic Adjustment.
	03	HF Signal	Check HF signal.
	04	Automatic Adjustment call	Turn the JOG dial to display the Automatic Adjustment data.
	05	Cleaning of Pick-up Lens	Tray opens and pick-up moves out of mechanism, and clean the lens.
	06	Focus Gain Changing	Select Gain with JOG dial. Press PLAY/PAUSE button, the display lights that will be newly memorized in EEPROM. Selectable level appears on the indicator MIN, while current Focus Gain level appears on the SEC. When select data becomes big or small, the Gain is up or down. In normal, do not change the data that is set by 5. The set No. stored in the EEPROM:
TRACK +/- button	07	Tracking Gain Changing	Select Gain with JOG dial. Press PLAY/PAUSE button, the display lights that will be newly memorized in EEPROM. Selectable level appears on the indicator MIN, while current Tracking Gain level appears on the SEC. When select data becomes big or small, the Gain is up or down. In normal, do not change the data that is set by 3. When sound out is occurred by oscillation, please raise the Gain. But there is sound out easily by defective disc. The set No. stored in the EEPROM:
	08	Error Code Check	Turn the JOG dial to display the logging error codes in the occurred order. Three error logs are memorized at maximum. Kinds of Error Code, displayed (1) Error Code Table (Appears only at Heat Run and Chucking Test function) (2) E204 ····· Servo down during cue (3) E205 ····· Servo down during pause (4) E206 ···· Servo down during manual search and scan (5) E213 ···· Unable to read the subcode during cue (6) E214 ···· Unable to read the subcode during pause (7) E215 ···· Unable to read the subcode during the manual serach and scan The memorized error codes are erased when pushing the PLAY/PAUSE button while pressing the CUE button.
	09	Total Running Time	Total time span of servo function that counted by the hour is displayed. The display time is less than 65535 hours. Note: No time is counted if powered down within 59 minutes. The memorized error codes are erased when pusing the PLAY/PAUSE button while pressing the CUE button.

	Work No. (TRACK Indication)	Function	Contents
TIME button	H1	Heat Run	All tracks are played back if the track is less than 20, playbacks only the first and the last tracks on the disc when the track is more than 21.
JOG MODE button	H2	Chucking Test	Repeats OPEN/CLOSE of tray, servo ON, TOC read and displays the number of the tray OPEN/CLOSE times with the Time indicator. When an error occurs, displays error code and stops.
SINGLE/CONT. button	нз	Playing Test	Selecting this mode and pushing the PLAY/PAUSE button starts 0.7 × speed playback, but with no sound. One more pushing of the PLAY/PAUSE button during playback changes it to be 1.4 × speed playback. Desired track can be selected with the TRACK +/- button during playback. The following are displayed on each indicators, TRACK: Track number FRAME: Playback speed 1 or 2 (1=1, 2=1.4)

Error Code Table (Appears only at Heat Run and Chucking Test function)

Error Code at TRACK portion	Contents No. at m portion	Contents
		Automatic Adjustment Error
	00	Unable to detect disc
	01	Unable to adjust tracking offset
E1	02	Unable to adjust focus offset
E1	03	Unable to adjust focus fine gain
	04	Unable to actuate focus
	05	Unable to actuate tracking
	06	Unable to adjust tracking fine gain
	00	Servo down during playback
	01	Servo down during search
	02	Servo down during automatic adjustment
E2	03	Servo down during TOC read
	10	Unable to read the subcode between 500 msec. during the playback
	11	Unable to read the subcode between 1 sec. during the search
	12	Unable to read the subcode between 500 msec. during the TOC read
E3	00	Unable to read TOC
	00	Unable to close the disc holder in the regular time
E4	01	Unable to open the disc holder in the regular time
F.5	00	Slide error
E 5	01	Slide error during search

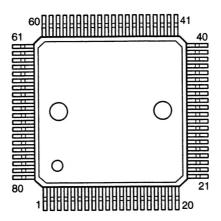
Detailed error can be displayed by select knob when error occurs.

	Error indication									
TR	MIN	SEC	FRAM							
Error Code	Contents No.		ber of open/close ray prior to Error							
	Indication state v	hen error occurs								
01	FG	data								
02	FBAL	. data								
03	FOFS	6 data								
04	TG	data								
05	TBAL									
06	TOFS									

SEMICONDUCTORS

● IC's

MN662724RPE (Main unit: IC101) CD SERVO PROCESSOR

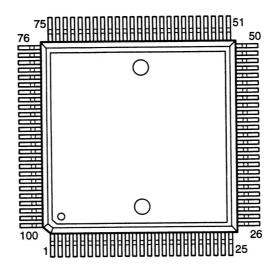


MN662724RPE Terminal Function

Pin No.	Symbol	1/0	Function
1	BCLK	0	Bit clock output for SRDATA.
2	LRCK	0	L,R discrimination signal output.
3	SRDATA	0	Serial data output.
4	DVDD1	_	Power supply for digital circuit.
5	DVSS1	_	GND for digital circuit.
6	TX	0	Digital audio interface output signal.
7	MCLK	1	Microcomputer command clock signal input (latches data at rising edge).
8	MDATA	1	Microcomputer command data input.
9	MLD	1	Microcomputer command load signal input. ("L": load)
10	SENSE	0	Sens signal output (OFT,, FESL,, NACEND,, NAJEND,, POSAD,, SFG).
11	FLOCK	0	Focus servo draw in signal ("L": draw in state).
12	TLOCK	0	Tracking servo draw in signal ("L": draw in state).
13	BLKCK	0	Subcode block clock signal (fGLKCK=75Hz).
14	SQCK	1	External clock input for subcode Q register.
15	SUBQ	0	Subcode Q code output.
16	DMUTE	1	Muting input ("H": mute).
17	STAT	0	Status signal (CRC,, CUE,, CLVS,, TTSTOP,, FCLV,, SQOK).
18	RST	1	Reset input ("L": reset).
19	SMCK	0	8.4672MHz clock signal output at MSEL="H". 4.2336MHz clock signal output at MSEL="L".
20	PMCK	0	88.2kHz clock output.
21	TRV	0	Traverse forcible sending output.
22	TVD	0	Traverse drive output.
23	PC	0	Spindle motor ON signal ("L": ON).
24	ECM	0	Spindle motor drive signal (forcible mode output). 3-state.
25	ECS	0	Spindle motor drive signal (servo error signal output).
26	KICK	0	Kick pulse output.
27	TRD	0	Tracking drive output.
28	FOD	0	Focus drive output.
29	VREF	1	Reference voltage for DA output portion (TVD,BCS,TRD,FOD,FBAL,TBAL).
30	FBAL	0	Focus balance adjusting output.

Pin No.	Symbol	1/0	Function
31	TBAL	0	Tracking balance adjusting output.
32	FE		Focus error signal input (analog input).
33	TE	1	Tracking error signal input (analog input).
34	RFENV	_	RF envelope signal input (analog input).
35	VDET	-	Vibration detecting signal input ("H": detect).
36	OFT		Off track signal input ("H": off track).
37	TRCRS	-	Track cross signal input.
38	RFDET	_	RF detecting signal input ("L": detect).
39	BDO	I	Drop out signal input ("H": drop out).
40	LDON	0	Laser ON signal output ("H": ON).
41	PLLF2	1/0	Loop filter terminal for PLL.
42	PLAY	0	Play signal output ("H": play).
43	WVEL	0	Double speed status signal output.
44	ARF	1	RF signal input.
45	IREF	1	Reference current input terminal.
46	DRF	1	Bias terminal for DSL.
47	DSLF	1/0	Loop filter terminal for DSL.
48	PLLF	1/0	Loop filter terminal for PLL.
49	VCOF	1/0	Loop filter terminal for VCO.
50	AVDD2		Power supply for analog circuit (for DSL,, PLL,, DA output sections).
51	AVSS2		GND for analog circuit (for DSL,, PLL,, DA output sections).
52	CK384	0	384 fs clock output.
53	PCK	0	PLL extract clock output (fPCK=4.321MHz).
54	TOFS	0	Tracking offset adjust signal output.
55	SUBC	0	Subcode serial output data output.
56	SBCK	ı	Clock input for subcode serial output.
57	vss		GND for osc. circuit.
58	X1	1	X'tal osc. circuit input terminal. f=16.9344MHz or 33.8688MHz.
59	X2	0	X'tal osc. circuit output terminal (use 33.8688MHz at double speed PB).
60	VDD		Power supply for osc. circuit.
61	BYTCK	0	Byte clock output.
62	CLDCK	0	Subcode frame clock signal output (fCLDCK=7.35kHz).
63	FCLK	0	X'tal frame clock output (fFCLK=7.35kHz).
64	IPFLAG	0	Interpolation flag output ("H": interpolation).
65	FLAG	0	Flag output.
66	CLVS	0	Spindle servo phase sync state signal output ("H":CLV,, "L":rough servo).
67	CRC	0	Subcode CRC check result output ("H":OK,, "L":NG).
68	DEMPH	0	Deemphasis detecting signal output ("H":ON).
69	RESY	0	Flag 6 output at SSEL:"H"(RAM address reset generating signal by Jitter margin over of CLV servo. "L":address reset pernerates). RESY output at SSBL:"L"(Re-sync signal output of frame sync. "H": sync,, "L":out sync).
70	SDAT48	0	48 fs serial data output.
71	TEST	1	Test terminal (normally "H").
72	AVDD1	_	Power supply for digital circuit.
73	LRCK48	0	48 fs L, R discrimination signal output.
74	AVSS1		GND for digital circuit.
75	BCLK48	0	48 fs bit clock output for SDAT48.
76	RSEL	1	RF signal polarity specify terminal (RSEL="H" at brightness level "H". RSEL="L" at brightness level L").
77	CSEL	1	X'tal osc. frequency specify terminal,, X'tal osc. freq. 33.8688MHz:CSEL"H",, 16.9344MHz:CSEL"L"
78	PSEL	1	Test terminal (normally "L").
79	MSEL	1	SMCK terminal. Output frequency shifting terminal ("H":SMCK=8.4672MHz,"L":SMCK=4.2336MHz).
80	SSEL		Sub Q teminal. Output mode shifting terminal ("H":Q code buffer using mode).

MN102L62GAA (Main unit: IC102) SYSTEM μCOM

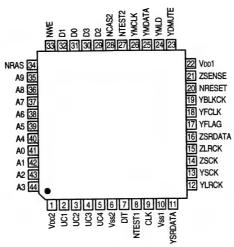


MN102L62GAA Terminal Function

Pin No.	Pin Name	Symbol	1/0	DET	Ext	Ini	Res	Function
1	P60	CDSEL	I	T —		_	_	Mecha. No. select signal, L: Mecha.1, H: Mecha.2
2	P61	RESERVE	0	_	_	L	_	Not used, open
3	P62	TP	0	—	_	٦		Test terminal for service mode
4	P63	RESERVE	0	_		L	_	Not used, open
5	P50	RESERVE	0			L		Not used, open
6	P51	RESERVE	0		_	L		Not used, open
7	P52	RESERVE	0	I —	_	L		Not used, open
8	P53	RESERVE	0	_	_	L	_	Not used, open
9	P54	LDOUT_	1	_	Pu		Н	Tray open end signal
10	P55	LDIN_	1	_	Pu	_	Н	Tray close end signal
11	P56	RESERVE	0	_	_	L	_	Not used, open
12	P57	RESERVE	0	T-	_	L	-	Not used, open
13	P20	RESERVE	0	_		L	_	Not used, open
14	P21	RESERVE	0	_	_	L		Not used, open
15	P22	RESERVE	0	_	_	L		Not used, open
16	P23	RESERVE	0	T-	T-	L	_	Not used, open
17	Vdd	Vdd		T-	T —	_	_	Power (+5.0V)
18	SYSCLK	SYSCLK	0	_	_	_	_	System clock output (OSCI × 1/2), not used
19	Vss	Vss	_	_	T-	_	<u> </u>	GND (0V)
20	XI	XI	1	_	I —	_		Fixed to GND
21	XO	ХО	0	_	_	_		Not used, open
22	Vdd	Vdd		_	_	_		Power (+5.0V)
23	OSCI	OSCI	1	T-	T —	_	_	X'tal input terminal, 12.288MHz
24	osco	osco	0	T-	_	—	_	X'tal output terminal
25	MODE	MODE	I	_	T —	_	T-	Fixed to H, H: Single chip mode
26	P24	RESERVE	0	T-	I —	L		Not used, open
27	P25	RESERVE	0	_	_	L	_	Not used, open
28	P26	RESERVE	0	_	I —	L	_	Not used, open
29	P27	RESERVE	0	T-	_	L	_	Not used, open
30	P30	RESERVE	0	T —	_	L	T-	Not used, open
31	P31	RESERVE	0	T-	T-	L	T-	Not used, open
32	P32	RESERVE	0	T-	I —	L	_	Not used, open
33	P33	RESERVE	0	T-		L	_	Not used, open
34	Vdd	Vdd	1-	T-	T	_	T-	Power (+5.0V)
35	P34	RESERVE	0	T	T-	L	I	Not used, open
36	P35	RESERVE	0	1-	Ι —	L	T-	Not used, open
37	P36	RESERVE	0	1=	1_	L	1-	Not used, open

Pin No.	Pin Name	Symbol	I/O	DET	Ext	Ini	Res	Function
38	P37	RESERVE	0			L		Not used, open
39	P40	RESERVE	0	_	_	L	_	Not used, open
40	P41	RESERVE	0		_	L	_	Not used, open
41	P42	RESERVE	0			L	_	Not used, open
42	P43	SCL	0		Pu			X24C00 data clock
43	Vss	Vss			_			GND (0V)
44	P44	SDA	1/0		Pu			X24C00 data (normal input)
45	P45	CONT1	1		Pu		Н	External control signal 1
46	P46	CONT2	-	_	Pu		Н	External control signal 2
47	P47	MC_/RC	1	_		=		L: Mecha. mode, H: RC mode, fixed to L
48	P80	RESERVE	0			L		Not used, open
49	P81	YDMUTE	0	_	Pd	L	L	SM5905AF forcible mute, H: Mute
50	P82	SMRST_ YMLD	0	_	Pd Pu	H	H	SM5905AF reset signal
51	P83 P84	ZSENSE	-		Pu	п	н	SM5905AF data latch signal SM5905AF status signal
52 53	P85	MCLK	0		-	Н		MN662724, SM5905AF, BU2616 clock signal
54	Vdd	Vdd			_	П	_	Power (+5.0V)
55	P86	MDATA	0			Н		MN662724, SM5905AF, BU2616 data signal
56	P87	RESERVE	0			L		Not used, open
57	P90	MLD	0		Pu	Н	Н	MN662724 data latch signal
58	P91	RESERVE	0			L	<u> </u>	Not used, open
59	P92	SENSE	Ť					MN662724 servo activate status input signal
60	P93	FLOCK_	Η			_		MN662724 focus servo-on input signal
61	Vss	Vss				_	_	GND (0V)
62	P94	TLED	0		Pd	L	L	Tray LED, H: Light
63	P95	TLOCK_	T	_	_	_		MN662724 tracking servo-on input signal
64	P96	STAT	1	_	_	_	_	MN662724 servo status input signal (TLOCK included)
65	P97	MNRST_	0	_	Pd	L	L	MN662724 reset signal
66	Vdd (Vpp)	Vdd		_				Power (+5.0V)
67	SBTO	SQCK	0	_	Pu	Н	Н	MN662724 sub-code read out clock signal
68	SBIO	SUBQ	-	_	Pu	_	Н	MN662724 sub-code data input signal
69	P72	RESY	1	_		_	_	MN662724 frame sync re-sync signal, H: Sync
70	P73	EJECT_			Pu	_	_	Disc holder open/close SW input signal
71	SBI1	RXD			Pu		Н	RC data receive
72	SBO1	TXD	0	_	Pu	Н	Н	RC data send
73	TEST1	TEST1				_		Fixed with 47k pull-up
74	TEST2	TEST2						Fixed with 47k pull-up
75	NMI_ PA0, IRQ0_	NMI BLKCK	1	Ed		_		Fixed to 5V MN662724 sub-code input (interrupt)
76 77	PA1, IRQ1_	ENFA	0	Eu	Pu		Н	SM5882
78	PA2, IRQ2_	RESERVE	0	\equiv	Fu	T		Not used, open
79	PA3, IRQ3_	INSW_	-	Lv	Pu		Н	Slide inner circle SW input
80	PA4, IRQ4_	BSYIN_	÷	Lv	Pu	=	Н	RC serial TXD line in-use input signal, L: In-use
81	ADSEP_	ADSEP	i		- 4			Fixed to 5V, H: Address/data separate mode
82	RST_	RST_	i		_			μcom reset
83	Vdd	Vdd		_		_		Power (+5.0V)
84	P00	BSYOUT_	0	_	Pu	Н	Н	RC serial TXD line in-use output signal, L: In-use
85	P01	RESERVE	0	_	_	L		Not used, open
86	P02	RESERVE	0			L	_	Not used, open
87	P03	PLAY	0	_	_	L	_	In-tracing signal, H: Trace
88	P04	AMUTE	0	_	Pu	Н	Н	Analog mute signal
89	P05	OPEN_	0		Pu	L	Н	Tray open SW
90	P06	CLOSE_	0	_	Pu	L	Н	Tray close SW
91	P07	MCE_	0	_	Pd	L	L	BU2616 enable signal
92	Vss	Vss]]]		GND (0V)
93	P10	RESERVE	0	_	-	L	-1	Not used, open
94	P11	RESERVE	0	_		L		Not used, open
95	P12	RESERVE	0			L		Not used, open
96	P13	RESERVE	0		_	L		Not used, open
	P14	RESERVE	0	_		L		Not used, open
	P15	RESERVE	0	\dashv	_	L		Not used, open
	P16	RESERVE	0			누		Not used, open
100	P17	RESERVE	0		_	L		Not used, open

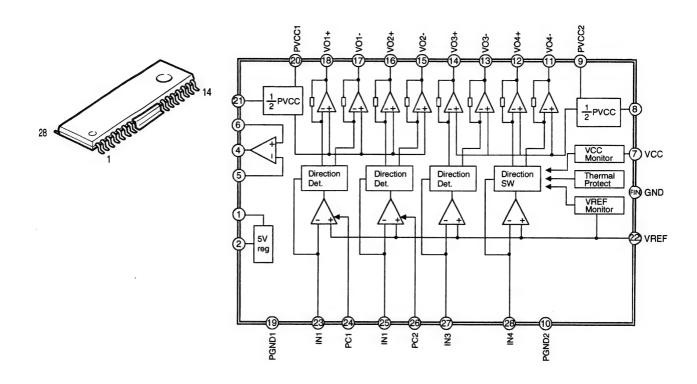
SM5905AF (Main unit) (IC103) **Shock Proof Memory Controller**



SM5905AF Terminal Function

Pin No.	Pin Name	1/0	Function							
1	Vpp2		Vod power terminal							
2	UC1	IP/O	com interface expansion I/O 1							
3	UC2	IP/O	com interface expansion I/O 2							
4	UC3	IP/O	ucom interface expansion I/O 3							
5	UC4	IP/O	μcom interface expansion I/O 4							
6	Vss2	T - T	GND							
7	DIT	0	Digital audio interface terminal							
8	NTEST1	IP	Test terminal							
9	CLK	1	16.9344MHz clock input							
10	Vss1		GND							
11	YSRDATA		Audio serial input data							
	YLRCK	1	Audio serial input LR clock, H: Lch							
	YSCK	1	Audio serial input bit clock							
	ZSCK	0	Audio serial output bit clock							
	ZLRCK	0	Audio serial output LR clock, H: Lch							
16	ZSRDATA	0	Audio serial output data							
17	YFLAG	1	RAM over-flow flag for signal processing, L: Over							
		1	X'tal system frame clock							
	YBLKCK		Sub-code block clock signal							
			System reset terminal, L: Reset							
21	ZSENSE	0	μcom interface status output							
	VDD1	_	VDD power terminal							
23			Forcible mute terminal, H: Mute							
24			μcom interface latch clock							
25		1	μcom interface serial data							
26		1	μcom interface shift clock							
27		IP	Test terminal							
28		0	DRAM2/CAS control (for external DRAM)							
29		IP/O	DRAM data input/output 2							
30		IP/O	DRAM data input/output 3							
31	D0	IP/O	DRAM data input/output 0							
32		IP/O	DRAM data input/output 1							
33		0	DRAM/WE control							
34		0	DRAM/RAS control							
35		0	DRAM address 9							
36		0	DRAM address 8							
37		0	DRAM address 7							
38		0	DRAM address 6							
39		0	DRAM address 5							
40		0	DRAM address 4							
41		0	DRAM address 0							
42		0	DRAM address 1							
43		0	DRAM address 2							
43		0	DRAM address 3							

AN8816SB (Main unit: IC104) PU DRIVER



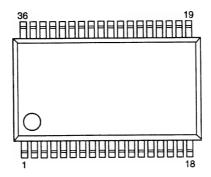
AN8816SB Terminal Function

Pin No.	Symbol	Function
1	IB	5Vreg external transistor base control terminal
2	VMON	5V regulator output monitor terminal
3	NC	No connection
4	ОРО	OP-amp output terminal
5	IN-	OP-amp inverted input terminal
6	IN+	OP-amp non-inverted input terminal
7	Vcc	Power supply terminal
8	1/2PVCC2	1/2 PVCC output terminal 2
9	PVCC2	Power supply terminal 2 for driver
10	PGND2	Ground terminal 2 for driver
11	VO4	Motor driver 4 inverted output terminal
12	VO4+	Motor driver 4 non-inverted output terminal
13	VO3-	Motor driver 3 inverted output terminal
14	VO3+	Motor driver 3 non-inverted output terminal

Pin no.	Symbol	Function
15	VO2-	Motor driver 2 inverted output terminal
16	VO2+	Motor driver 2 non-inverted output terminal
17	VO1-	Motor driver 1 inverted output terminal
18	VO1+	Motor driver 1 non-inverted output terminal
19	PGND1	Ground terminal 1 for driver
20	PVCC1	Power supply terminal 1 for driver
21	1/2PVCC1	1/2 PVCC output terminal 1
22	VREF	VREF input terminal
23	IN1	Motor driver 1 input terminal
24	PC1	PC (power cut) input terminal 1
25	IN2	Motor driver 2 input terminal
26	PC2	PC (power cut) input terminal 2
27	IN3	Motor driver 3 input terminal
28	IN4	Motor driver 4 input terminal

Note: FIN grounded

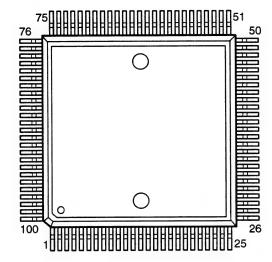
AN8807SB (Main unit: IC105) RF AMP



AN8807 Terminal Function

Pin No	Symbol	1/0	Function
1	PD	1	PD signal input for output monitor of LD.
2	LD	0	Connect to external transistor's base for LD drive.
3	LDON	1	LD APC ON/OFF switching signal.
4	C.CRS	1_	Capacitor connecting terminal for CROSS.
5	VCC	_	Power supply connecting terminal.
6	RF	1	RF AMP reversal input terminal. Connect a resistor.
7	RFOUT	0	RF AMP output terminal (reversal AMP).
8	RFIN	1	Input terminal of RF AGC.
9	C. AGC	T-	Capacitor connecting terminal for RF AGC loop filter.
10	ARF	0	RF output terminal of after AGC.
11	C. ENV	_	Capacitor connecting terminal for RF.
12	C. EA	T-	Capacitor connecting terminal for AMP.
13	C. SBDO	_	Capacitor connecting terminal for low speed detection of dark level DO detection.
14	BDO	0	BDO detection output terminal. Positive logic.
15	C. SBRT	T-	Capacitor connecting terminal for low speed detection of OFTR detection.
16	OFTR	0	Output terminal of OFF TRACK detection. Positive logic.
17	NRFDET	0	Output terminal of RF signal amplitude detection. Negative logic.
18	GND	T_	GND
19	ENV	0	ENV output terminal.
20	VREF	0	VCC x 0.5(V) output terminal.
21	LD OFF	1	Input terminal of LD APC forcible stop.
22	VDET	0	Output terminal of vibration detection.
23	TEBPF		Input terminal of vibration detection.
24	CROSS	0	Output terminal of TE CROSS detection signal.
25	TEOUT	0	Output terminal of TEAMP.
26	TE	1	TEAMP reversal input terminal. Connect a resistor.
27	FEOUT	0	Output terminal of FEAMP.
28	FE	1	FEAMP reversal input terminal. Connect a resistor.
29	FBAL	1	Control signal input terminal of FO balance adjustment.
30	TBAL	1	Control signal input terminal of TE balance adjustment.
31	PDFR	_	Resistor connecting terminal for setting IV converting resistance value of PDE.
32	PDER	_	Resistor connecting terminal for setting IV converting resistance value of PDF.
33	PDE	1	Connect to PIN diode E.
34	PDF		Connect to PIN diode F.
35	PDBD	I	Connect to B, D of astigmatism 1/4 divided PD.
36	PDAC		Connect to A, C of astigmatism 1/4 divided PD.

MN102L62GAA (Remote unit: IC101) μCOM

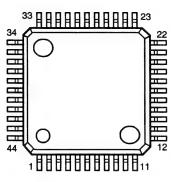


MN102L62GAA Terminal Function

Pin No.	Pin Name	Symbol	I/O	DET	Ext	lni	Res	Function
1	P60	P60	0	_	_	L		Not used, open
2	P61	RESERVE	0		_	٦		Not used, open
3	P62	RESERVE	0	_	_	L		Not used, open
4	P63	RESERVE	0	_	-	٦		Not used, open
5	P50	RESERVE	0	_	_	۲		Not used, open
6	P51	RESERVE	0	_	_	٦		Not used, open
7	P52	RESERVE	0	_		لـ		Not used, open
8	P53	RESERVE	0	_	_	L	_	Not used, open
9	P54	P54	0	_	_	٦		Not used, open
10	P55	P55	0	_	_	٦	_	Not used, open
11	P56	RESERVE	0	_	_	L		Not used, open
12	P57	RESERVE	0			L	_	Not used, open
13	P20	RESERVE	0	_		٦		Not used, open
14	P21	RESERVE	0	_		L	_	Not used, open
15	P22	RESERVE	0	_	_	لـ	_	Not used, open
16	P23	RESERVE	0	_	_	٦	_	Not used, open
17	VDD	VDD	_	_	_	_		Power (+5.0V)
18	SYSCLK	SYSCLK	0	_		-	_	System clock output (OSCI×1/2)
19	Vss	Vss	_	_	-	-	_	GND (0V)
20	XI	XI	1	_	_	_		Fixed to GND
21	XO	XO	0	_	_	_	_	Not used, open
22	VDD	VDD	_	_		_	_	Power (+5.0V)
23	OSCI	OSCI	1	_	_	_		X'tal input terminal, 12.288MHz
24	OSCO	OSCO	0	_		_	_	X'tal output terminal
25	MODE	MODE	1			_	_	Fixed to 5V, single chip mode
26	F24	RESERVE	0	_	_	Г	_	Not used, open
27	P25	RESERVE	0	_	_	П	_	Not used, open
28	P26	RESERVE	0	_	_	٦	_	Not used, open
29	P27	RESERVE	0		_	L	_	Not used, open
30	P30	RESERVE	0		_	٦		Not used, open
31	P31	RESERVE	0	_	_	L	_	Not used, open
32	P32	RESERVE	0	_		L	_	Not used, open
33	P33	RESERVE	0	_	_	L	_	Not used, open
34	VDD	VDD						Power (+5.0V)
35	P34	RESERVE	0	_		L		Not used, open
36	P35	RESERVE	0	_	_	L	_	Not used, open
37	P36	RESERVE	0	_	_	L	_	Not used, open

Pin No.	Pin Name	Symbol	I/O	DET	Ext	lni	Res	Function
38	P37	RESERVE	0		_	L	-	Not used, open
	P40	RESERVE	0	_	_	L	_	Not used, open
	P41	RESERVE	0	_	_	L	_	Not used, open
41	P42	RESERVE	0	_	_	L	_	Not used, open
42	P43	RESERVE	0			L		Not used, open
43	Vss	Vss	+=	-			_	GND (0V)
	AN4, P44	RESERVE	0	-	-	L		Not used, open Not used, open
	AN5, P45 STOP, AN6, P46	RESERVE	10	-	-	는	_	Not used, open
46	P47	MC_/RC	+ +	$\vdash \equiv$	_	<u> </u>	$\vdash =$	L: Mecha. mode, H: RC mode, fixed to H
	TM0IO, P80	SHTL23	+	$\vdash \equiv$	Pu		Н	CD2 shuttle input 3
	TM1IO P81	SHTL22	+		Pu	_	Н	CD2 shuttle input 2
	TM2IO, P82	SHTL21	$\pm \dot{\pm}$		Pu	_	Н	CD2 shuttle input 1
51	TM3IO, P83	SHTL20	ΤĖ		Pu	_	Н	CD2 shuttle input 0
52	TM4IO, P84	RESERVE	0	_		L		Not used, open
53	TM5IO, P85	RESERVE	0	<u> </u>	_	L	_	Not used, open
54	VDD	VDD	 	İ=	_	_	_	Power (+5.0V)
55	TM6IOA, P86	RESERVE	0	_	-	L	_	Not used, open
56	TM6IOB, P87	RESERVE	0	_	T-	L	_	Not used, open
57	TM6IOC, P90	RESERVE	0			Н		Not used, open
58	TM7IOA, P91	RESERVE	0			Н	_	Not used, open
59	TM7IOB, P92	FLNCS1	0	_	Pu	Н	Н	CD1 MN12510F latch signal
60	TM71C, P93	FLNCS2	0		Pu	Н	Н	CD2 MN12510F latch signal
61	Vss	Vss	_	_	_	_	_	GND (0V)
62	AN0, P94	PIT1	1	_	_	_		CD1 pitch VR signal
63	AN1, P95	PITC1	11	1-	<u> </u>	_	_	CD1 pitch VR center value signal
64	AN2, P96	PIT2	1	$\perp =$	$\perp =$			CD2 pitch VR signal
65	AN3, P97	PITC2	<u> </u>	<u> </u>	_	_	\vdash	CD2 pitch VR center value signal
66	VDD (Vpp)	VDD	1-	_	ᄂ	_	<u> </u>	Power (+5.0V)
67	SBTO, P70	FLCLK	0	 -	Pu	Н	Н	MN12510F data clock signal
68	SBIO, P71	FLSDO	+	-	-	-	-	MN12510F data input signal
69	SBO0, P72	FLSDI	10	\vdash	<u> </u>	H	1=	MN12510F data output signal
70	SBT1, P73	P73	0	-	<u> </u>	L	<u> </u>	Not used, open
71 72	SBI1, P74 SBO1, P75	RC-RXD	10	-	Pu	<u>—</u>	H	Data receive from main unit Data send to main unit
73	TEST1	RC-TXD TEST1	1	+=	Pu	<u> </u>	П	Fixed with 47k pull-up
74	TEST2	TEST2	+ ;	+=	$\vdash =$	-	一	Fixed with 47k pull-up
75	NMI	NMI	+÷	\vdash				Fixed to 5V
76	PA0, IRQ0_	JOG21	+ i	Ed	Pu		Н	CD2 jog input 1, iPu: Internal Pu
77	PA1, IRQ1_	JOG20	Η÷	Ed	Pu		Н	CD2 jog input 0
	PA2, IRQ2_	JOG11	ΤĖ	Ed	Pu	_	H	CD1 jog input 1
	PA3, IRQ3_	JOG10	++	Ed	Pu	=	H	CD1 jog input 0
	PA4, IRQ4_	PA4	0	_	-	L	_	Not used, open
	ADSEP_	ADSEP	T	_	-	_	_	Fixed to 5V, H: Address/data separate mode
	RST_	RST_	T	_	_	_	_	μcom reset
83	VDD	VDD						Power (+5.0V)
	P00	SHTL13	I		Pu	_	Н	CD1 shuttle input 3
	P01	SHTL12	1	_	Pu	_	Н	CD1 shuttle input 2
	P02	SHTL11	I	_	Pu	_	Н	CD1 shuttle input 1
	P03	SHTL10	11	1=	Pu	=	Н	CD1 shuttle input 0
	P04	P04	11	1=	_	_	L	Not used, fixed to 0V
	P05	P05	11	$\perp =$	_	=	L	Not used, fixed to 0V
	P06	P06	4!	<u> </u>	_	-	L	Not used, fixed to 0V
	P07	P07	+-	-	-	-	L	Not used, fixed to 0V
	Vss	Vss	+=	 -	-	-	=	GND (0V)
	P10	RESERVE	10	-	-	<u> </u>		Not used, open
	P11	RESERVE	0	-	-	<u> </u>	-	Not used, open
	P12	RESERVE	0	\vdash	-	<u> </u>	-	Not used, open
	P13	RESERVE	0	-	+=	-	-	Not used, open Not used, open
	P14	RESERVE			_	<u> </u>		
	D15	DECEDIA		1 -				
	P15	RESERVE	0	+=	_	L		Not used, open Not used, open

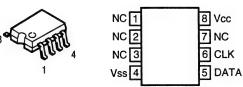
MN12510F (Remote unit: IC201, 301) FL DRIVER



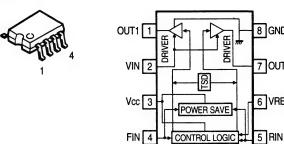
MN12510F Terminal Function

Pin No.	Symbol	1/0	Function
1	P21	0	Segment output15 (hi-voltage proof output).
2	P20	0	LED drive output (hi-voltage proof output).
3	P03	0	No connection.
4	P02	0	No connection.
5	P01	0	Digit output10 (hi-voltage proof output).
6	P00	0	Digit output9 (hi-voltage proof output).
7	DGT7	0	Digit output8 (hi-voltage proof output).
8	DGT6	0	Digit output7 (hi-voltage proof output).
9	DGT5	0	Digit output6 (hi-voltage proof output).
10	DGT4	0	Digit output5 (hi-voltage proof output).
11	NC	_	No connection.
12	DGT3	0	Digit output4 (hi-voltage proof output).
13	DGT2	0	Digit output3 (hi-voltage proof output).
14	DGT1	0	Digit output2 (hi-voltage proof output).
15	DGT0	0	Digit output1 (hi-voltage proof output).
16	Vpp	1	ELP driver power supply, VPP: VDD -35V.
17	NC	_	No connection.
18	VDD	1	Power supply terminal, VDD: +5V ±0.5V.
19	OSC1	1	Clock oscillation input terminal.
20	OSC2	0	Clock oscillation output terminal.
21	Vss	-	Power supply terminal, Vss: 0V.
	NCS		Chip select input, "L": Serial input enable, "H": Disable.
	scĸ	1	Clock input for serial transference.
24	SDI	0	Serial data input terminal.
25	SDO	0	Serial data output terminal.
26	P30	ı	Key scan input terminal.
27	P31	ı	Key scan input terminal.
28	P32	ı	Key scan input terminal.
29	P33	0	LED drive output terminal.
30	P34	0	LED drive output terminal.
31	SEG0	0	Segment output1 (hi-voltage proof output).
32	SEG1	0	Segment output2 (hi-voltage proof output).
33	SEG2	0	Segment output3 (hi-voltage proof output).
34	SEG3	0	Segment output4 (hi-voltage proof output).
35	SEG4	0	Segment output5 (hi-voltage proof output).
36	SEG5	0	Segment output6 (hi-voltage proof output).
	SEG6	0	Segment output7 (hi-voltage proof output).
	SEG7	0	Segment output8 (hi-voltage proof output).
39	P10	0	Segment output9 (hi-voltage proof output).
	P11	0	Segment output10 (hi-voltage proof output).
41	P12	0	Segment output11 (hi-voltage proof output).
	P13	0	Segment output12 (hi-voltage proof output).
	P23		Segment output13 (hi-voltage proof output).
	P22	0	Segment output14 (hi-voltage proof output).

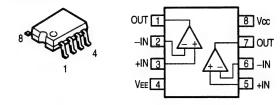
X24C00S (Power unit: IC602) EEPROM



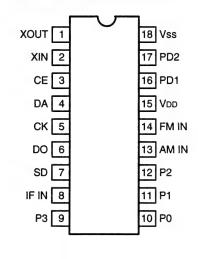
BA6287F (Main unit: IC106) LOADING DRIVER

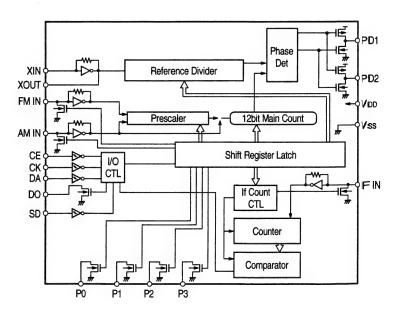


BA15218F (Main unit: IC111)

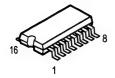


BU2616F (Main unit: IC107)

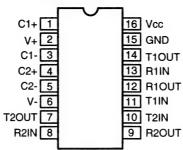




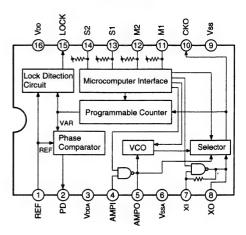
TC9246F (Main unit: IC108) MAX202CSE (Remote unit: IC103) (Power unit: IC601)





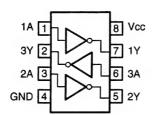


TC9246F

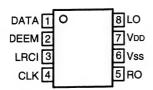


TC7WU04F (Power unit: IC701, 702)



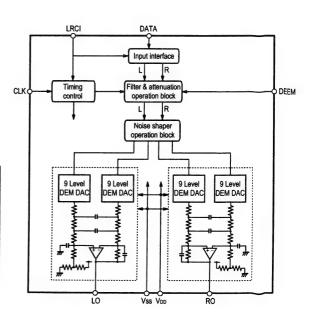


SM5882AS (Main unit: IC109)

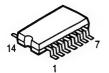


Terminal Function

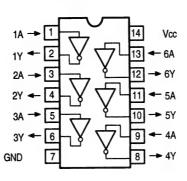
Pin No.	Pin Name	1/0	Function
1	DATA	-	Serial data input terminal
2	DEEM	-	De-emphasis switching terminal (44.1kHz, H: ON)
3	LRCI	1	Sample rate clock (fs) input terminal (H: Lch, L: Rch)
4	CLK	1	External clock input terminal
5	RO	0	Rch analog output terminal
6	Vss		Vss terminal
7	VDD	_	Voo terminal
8	LO	0	Lch analog terminal



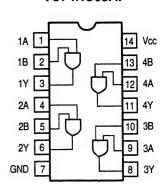
HD74AC04FP (Main unit: IC110) TC74HC08AF (Power unit: IC603)



HD74AC04FP



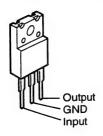
TC74HC08AF



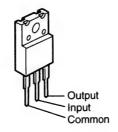
NJM7805FA (S)

(Power unit: IC608, 611, 613)

NJM7806FA (S) (Power unit: IC610)



NJM7905FA (Power unit: IC614)



MN1382-R

(Remote unit: IC104)

MN1382-S

(Power unit: IC604)

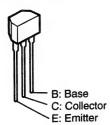


1: Output

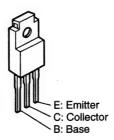
2: VDD 3: Vss

TRANSISTORS

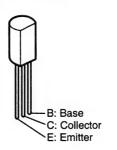
2SD2144S



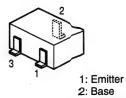
2SB1185 (E/F)



2SB562 (C)



2SC2412K (S)



2: Base 3: Collector

DTA114EK DTC114EK

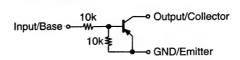


1: GND/Emittor

2: Input/Base 3: Output/Collector

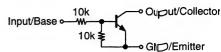
DTA114EK

(PNP Type)



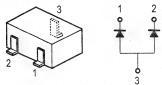
DTC114EK

(NPN Type)



DIODES(Incl luding LED)

DAP202K

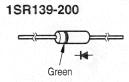


- 1: Cathode 2: Cathode 3: Anode

1SS270A

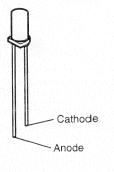


HZS2B-1 HZS6B-3 MTZJ4.3A MTZJ27A

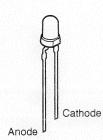




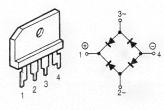
SLR-325MC (Green) SLR-325VC (Red)



SEL1810A(Orange)



D3SBA20



MA151A MA151WA MA151WK



MA151A



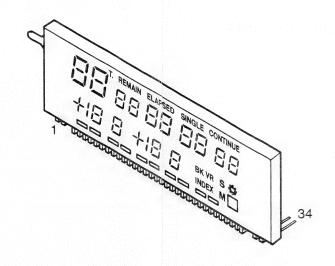
MA151WA



MA151WK



• FL TUBE 10-MT-109GK (FL201, 301)

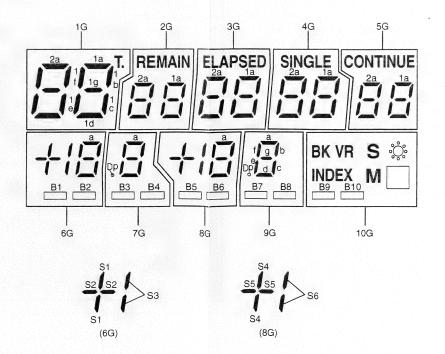


Pin Connection

DIM M										1	1	1	1	1	1	1	.1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3
PIN No.	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3
					148								Р	Р	Р	Р	Р	Р				1	100										
Connection	F	F	N	Р	Р	Р	Р	Р	Р	Р	Р	Р	1	1	1	1	1	1	N	N	N	0	9	8	7	6	5	4	3	2	1	N	F
	1	1	Р	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	C	С	С	G	G	G	G	G	G	G	G	G	G	Р	2

NOTE	1)	F1, F2	. Filament
	2)	NP	No Pin
	3)	NC	No Connection
	4)	P1~P15	. Datum Line
	5)	1G~10G	Grid

Grid Assignment

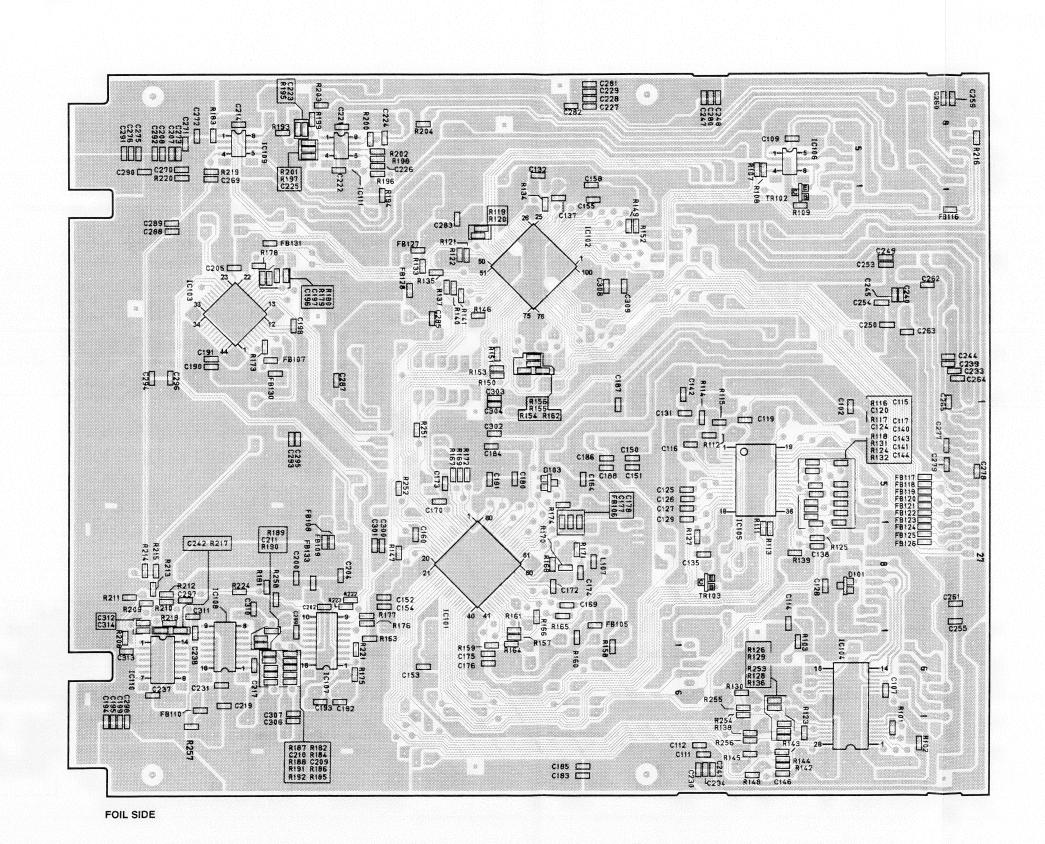


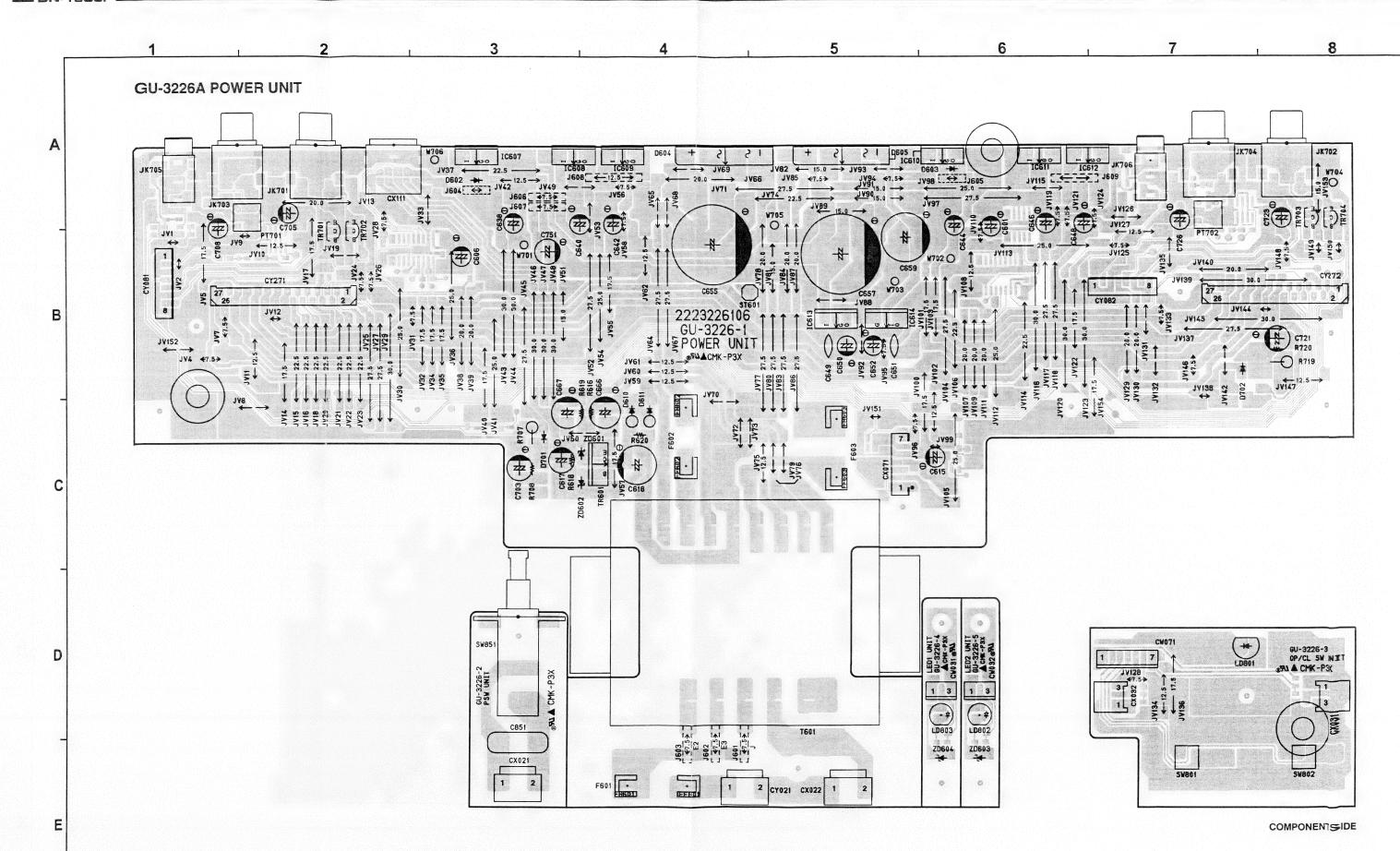
5 **GU-3278 MAIN UNIT** FB115 00 FB113 <u>Q</u> ←12.5-JV123 JV131 17116 €7.5→ JV111 €7.5→ JV109 → JV105 %
 → JV104 -9
 → JV102 |> FB129 ~ FB135 JV139 OO JV36 OC 47.5> H c139 FB134 00

COMPONENT SIDE

B

D





C641 C677 C676 C645 | C679 C637 C678 6242 - Marie | 1 C654 C759 C653 ____ cest ____ C656 C754 ____ C765 ___ C7565 7 8 8 8 C565 C757 C758 C764 C661 C660 ___ C801 C802 R745 R744 R743 TR602 FOIL SIDE

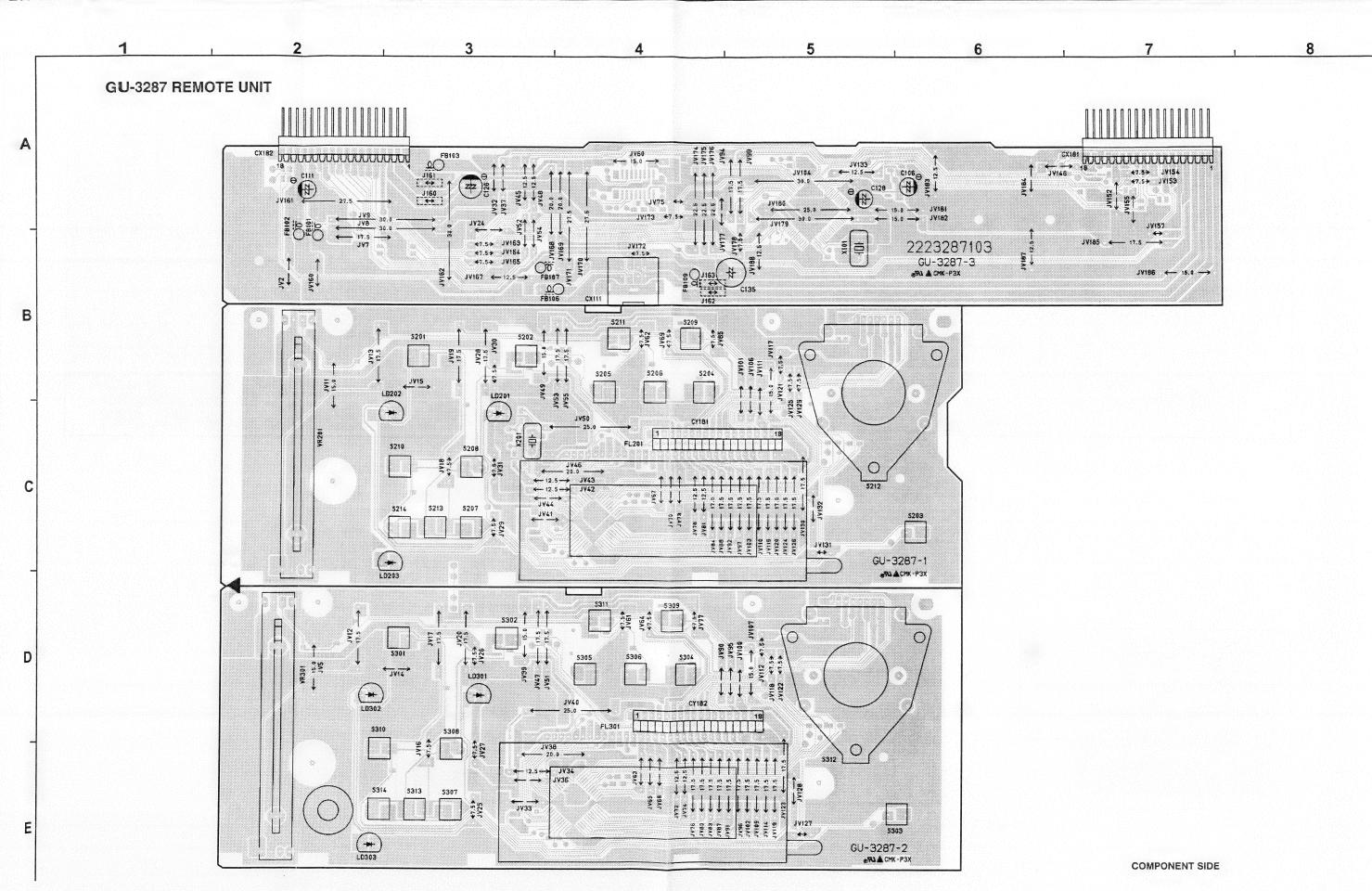
A

В

C

D

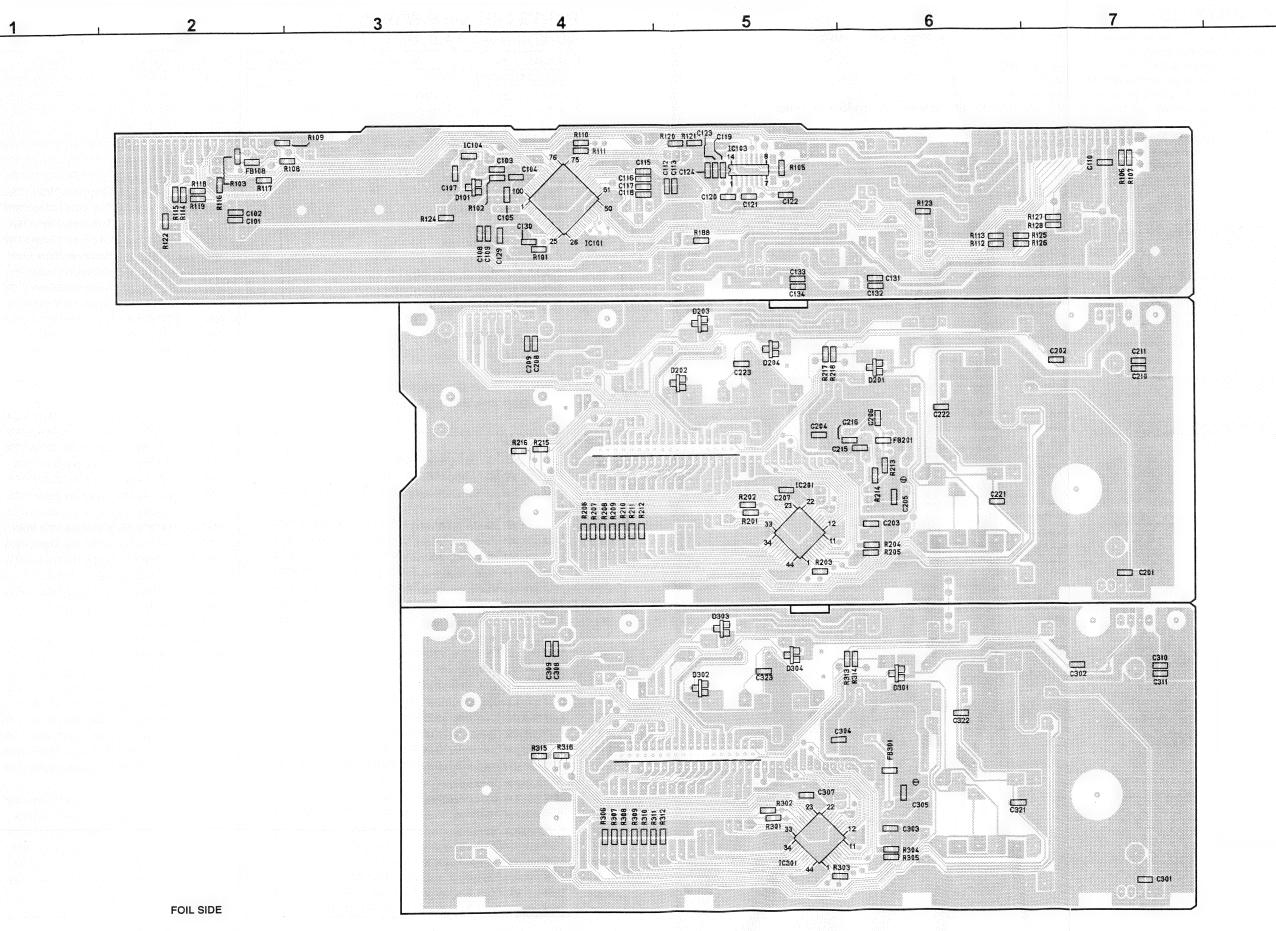
E



B

D

E



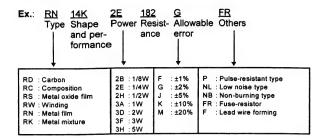
NOTE FOR PARTS LIST

- Part indicated with the mark "O" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

Parts marked with this symbol \triangle have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

Resistors



* Resistance

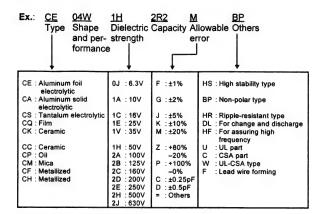
1800 ohm = 1.8 kohm 1 8 2 ⇒ Indicates number of zeros after effective number.

2-digit effective number.

1 R 2 ⇒ 1.2 ohm 1-digit effective number.

2-digit effective number, decimal point indicated by R.

Capacitors



* Capacity (electrolyte only)

2 2 2 ⇒ 2200µF - Indicates number of zeros after effective number.

• Units: μF.

 2.2μF
 1-digit effective number.
 2-digit effective number, decimal point indicated by R. • Units: μF.

* Capacity (except electrolyte)

2_2 ⇒ 2200pF=0.0022µF

(More than 2)—Indicates number of zeros after effective number.

2-digit effective number.

Units: μF.

 $\stackrel{2}{\uparrow}$ $\stackrel{1}{\downarrow}$ $\stackrel{\Rightarrow}{\downarrow}$ $\stackrel{220pF}{\longrightarrow}$ Indicates number of zeros after effective number. 2-digit effective number.

• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

PARTS LIST OF P.W.B. UNIT **GU-3278 MAIN P.W.B. UNIT ASS'Y**

Ref	i. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SE	MICON	IDUCTORS (GROUP		R140	247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J
IC10	01	262 2368 005	IC MN662724RPE		R141.	247 2003 947	Carbon chip 22ohm 1/16W	RM73B220J
IC10	02	262 2790 000	IC MN102L62GAA		R142	247 2007 943	Carbon chip 1kohm 1/16W	RM73B102J
IC10	03	262 2788 009	IC SM5905AF		R143	247 2009 909	Carbon chip 4.7kohm 1/16W	RM73B472J
IC10		262 2461 902	IC AN8816SB		R144	247 2012 925	Carbon chip 100kohm 1/16W	RM73B104J
IC10		262 2462 901	IC AN8807SB		R145	247 2011 942	Carbon chip 47kohm 1/16W	RM73B473J
IC1		263 0994 908	IC BA6287F		R146,147	247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J
IC1		262 2789 901	IC BU2616F		R148	247 2010 985	Carbon chip 27kohm 1/16W	RM73B273J
IC1		262 1883 905			R149,150	247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J
IC1		262 2787 903			R151	247 2003 947	Carbon chip 22ohm 1/16W	RM73B220J
IC1		263 0615 902	IC BA15218F		R152,153	247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J
					R154	247 2003 947	Carbon chip 22ohm 1/16W	RM73B220J
TR1	101	272 0025 907	Transistor 2SB562 (C)		R155,156	247 2011 942	Carbon chip 47kohm 1/16W	RM73B473J
TR1		273 0384 900	Transistor 2SC2412K (S)	,	R157	247 2011 984	Carbon chip 68kohm 1/16W	RM73B683J
TR1		269 0082 902	Transistor DTC114EK		R158	247 0014 967	Carbon chip 1Mohm 1/10W	RM73B105J
					R160	247 0011 902	Carbon chip 33kohm 1/10W	RM73B333J
D10)1	276 0559 909	Diode DAP202K		R161	247 2012 925	Carbon chip 100kohm 1/16W	RM73B104J
D10		276 0559 909	Diode DAP202K		R162,163	247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J
					R164	247 2005 916	Carbon chip 110ohm 1/16W	RM73B111J
ZD1	101	276 0462 928	Zener diode HZS6B-3		R165	247 0018 905	Carbon chip 0ohm 1/10W	RM73B0R0K
ZD1		276 0450 901	Zener diode HZS2B-1		R167	247 2003 947	Carbon chip 22ohm 1/16W	RM73B220J
İ					R168	247 2014 965	Carbon chip 1Mohm 1/16W	RM73B105J
-					R169	247 2003 947	Carbon chip 22ohm 1/16W	RM73B220J
		RS GROUP	1		R170	247 2005 929	Carbon chip 120ohm 1/16W	RM73B121J
	1,102	247 0018 905	Carbon chip 0ohm 1/10W	RM73B0R0K	R171	247 2018 903	Carbon chip 0ohm 1/16W	RM73B0R0K
R10		247 0002 966	Carbon chip 10ohm 1/10W	RM73B100J	R172	247 2003 947	Carbon chip 22ohm 1/16W	RM73B220J
	7,108	247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J	R173	247 2003 976	Carbon chip 30ohm 1/16W	RM73B300J
R10		247 2007 943	Carbon chip 1kohm 1/16W	RM73B102J	R174	247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J
R11		247 2013 966	Carbon chip 390kohm 1/16W	RM73B394J	R175	247 2018 903	Carbon chip 0ohm 1/16W	RM73B0R0K
R11		247 0009 927	Carbon chip 5.6kohm 1/10W	RM73B562J	R176,177	247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J
R11		247 2013 940	Carbon chip 330kohm 1/16W	RM73B334J	R178~180	247 2003 947	Carbon chip 22ohm 1/16W	RM73B220J
R11		247 0009 927	Carbon chip 5.6kohm 1/10W	RM73B562J	R181	247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J
R11		247 0009 901	Carbon chip 4.7kohm 1/10W	RM73B472J	R182	247 2009 925	Carbon chip 5.6kohm 1/16W	RM73B562J
R11		247 2010 985	Carbon chip 27kohm 1/16W	RM73B273J	R183	247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J
R11		247 2008 968	Carbon chip 3.3kohm 1/16W	RM73B332J	R184	247 2018 903	Carbon chip 0ohm 1/16W	RM73B0R0K
R11		247 2011 900	Carbon chip 33kohm 1/16W	RM73B333J	R185,186	247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J
	9,120	247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J	R187	247 2012 912	Carbon chip 91kohm 1/16W	RM73B913J
	1,122	247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J	R188	247 2012 983	Carbon chip 180kohm 1/16W	RM73B184J
R12		247 2008 968	Carbon chip 3.3kohm 1/16W	RM73B332J	R189	247 2005 903	Carbon chip 100ohm 1/16W	RM73B101J
R12		247 2018 903	Carbon chip 0ohm 1/16W	RM73B0R0K	R190	247 2013 937	Carbon chip 300kohm 1/16W	RM73B304J
R12		247 2008 971	Carbon chip 3.6kohm 1/16W	RM73B362J	R191	247 2008 939	Carbon chip 2.4kohm 1/16W	RM73B242J
R12		247 0005 989	Carbon chip 220ohm 1/10W	RM73B221J	R192	247 2009 912	Carbon chip 5.1kohm 1/16W	RM73B512J
R12		247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J	R193,194	247 2011 942	Carbon chip 47kohm 1/16W	RM73B473J
R12	1	247 2011 968	Carbon chip 56kohm 1/16W	RM73B563J	R195~202	247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J
R13	- 1	247 2008 942	Carbon chip 2.7kohm 1/16W	RM73B272J				
R13	ł	247 2011 926	Carbon chip 39kohm 1/16W	RM73B393J	R203,204	247 2010 998	Carbon chip 30kohm 1/16W	RM73B303J
R13		247 2009 983	Carbon chip 10kohm 1/16W	RM73B103J	R208,209	247 2018 903	Carbon chip 0ohm 1/16W	RM73B0R0K
R134	- 1	247 2018 903	Carbon chip 0ohm 1/16W	RM73B0R0K	R210	247 2007 943	Carbon chip 1kohm 1/16W	RM73B102J
R135	- 1	247 2003 947	Carbon chip 22ohm 1/16W	RM73B220J	R212	247 2018 903	Carbon chip 0ohm 1/16W	RM73B0R0K
R136	- 1	247 2012 909	Carbon chip 82kohm 1/16W	RM73B823J	R213	247 2018 903	Carbon chip 0ohm 1/16W	RM73B0R0K
R138	- 1	247 2004 920	Carbon chip 47ohm 1/16W	RM73B470J	R214,215	247 2003 947	Carbon chip 22ohm 1/16W	RM73B220J
R139	ı	247 2011 984	Carbon chip 68kohm 1/16W	RM73B683J	R216	247 2018 903	Carbon chip 0ohm 1/16W	RM73B0R0K
H 138	,	247 2013 908	Carbon chip 220kohm 1/16W	RM73B224J				

Det No	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
Ref. No.	Part No.		RM73B470J	C154	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
R217	247 2004 920	Carbon chip 47ohm 1/16W	RM73B4703	C154	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
R218	247 2018 903	Carbon chip 0ohm 1/16W	RM73B0R0K	C156	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)
R221~224	247 0018 905	Carbon chip 0ohm 1/10W	RM73B0R0K	C157	255 4201 984	Polypropylene film 560pF/50V	CQ93P1H561J
R251~256	247 2018 903	Carbon chip 0ohm 1/16W		C157	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z
R258	247 0018 905	Carbon chip 0ohm 1/10W	RM73B0R0K	C158	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)
				C160	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
CAPACIT	ORS GROUP			C160	257 0012 900	Mylar film 0.022µF/50V	CQ93M1H223J (B)
C101	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)	C161	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)
C102	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	C162	255 1265 978	Mylar film 0.022µF/50V	CQ93M1H223J (B)
C103	254 4538 942	Electrolytic 100µF/16V	CE04W1C101M (SMG/RE3)	C163	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C106	254 4538 942	Electrolytic 100µF/16V	CE04W1C101M (SMG/RE3)	C164		Polypropylene film 680pF/50V	CQ93P1H681J
C107	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z		255 4202 909		CK45F1H103Z
C108	254 4305 968	Electrolytic 1µF/50V	CE04W1H010M (SRE)	C166	253 1181 904	Ceramic 0.01µF/50V	CF93A1H104J (JL)
C109	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	C167	256 1058 971	Metallized 0.1μF/50V	CC73SL1H100D
C110	254 3068 918	Electrolytic 2.2µF/50V	CE04D1H2R2MBP (SRA)	C170	257 0002 921	Ceramic chip 10 pF/50V	CE04W1A101M (SRE)
C111	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K	C171	254 4302 974	Electrolytic 100µF/10V	
C112	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	C172	257 0001 993	Ceramic chip 7.0 pF/50V	CC73SL1H7R0C
C113	254 4299 964	Electrolytic 47µF/16V	CE04W1C470M (SRE)	C173	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C115	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	C174	257 0001 993	Ceramic chip 7.0 pF/50V	CC73SL1H7R0C
C116	257 0001 948	Ceramic chip 2.0 pF/50V	CC73SL1H2R0C	C175	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C117	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	C176,177	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C118	256 1058 971	Metallized 0.1µF/50V	CF93A1H104J (JL)	C178	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C119	257 0002 976	Ceramic chip 16pF/50V	CC73SL1H160J	C179	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C120	257 0002 370	Ceramic chip 150pF/50V	CC73SL1H151J	C180	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C120	254 4305 968	Electrolytic 1µF/50V	CE04W1H010M (SRE)	C181	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C121	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)	C182	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)
C122	255 1265 936	Mylar film 0.01µF/50V	CQ93M1H103J (B)	C183,184	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C123	257 0005 960	Ceramic chip 270pF/50V	CC73SL1H271J	C185	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C125	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101J	C186	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C126	257 0010 955	Ceramic chip 0.027µF/25V	CK73B1E273K	C188	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
C127	257 0009 924	Ceramic chip 2200pF/50V	CK73B1H222K	C189	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)
C127	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101J	C190	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z
C129	257 0009 966	Ceramic chip 4700pF/50V	CK73B1H472K	C191	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C130		Metallized 0.22µF/50V	CF93A1H224J (JL)	C192,193	257 0503 967	Ceramic chip 15pF/50V	CC73CH1H150J
C130		Ceramic chip 0.01µF/50V	CK73F1H103Z	C194	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C133	253 9030 963	Ceramic 0.01µF/25V	CK45=1E103K	C195	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z
C134	254 4213 940	Electrolytic 220µF/6.3V	CE04W0J221M (SRA)	C196	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
C135	257 0005 944	Ceramic chip 220pF/50V	CC73SL1H221J	C199,200	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z
C136	253 9039 906	Ceramic 0.1µF/25V	CK45=1E104Z		074 4000 074	Fl	OF04144 4 4 4 4 4 (CDF)
C138	257 0009 966	Ceramic chip 4700pF/50V	CK73B1H472K	C201	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)
C139	255 1265 923	Mylar film 8200pF/50V	CQ93M1H822J (B)	C202	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z
C140	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K	C203	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C140	257 0010 000	Ceramic chip 2200pF/50V	CK73B1H222K	C204,205	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z
C141	257 0003 924	Ceramic chip 0.1µF/25V	CK73F1E104Z	C206	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)
C144	257 0011 983	Ceramic chip 0.047µF/25V	CK73B1E473K	C207	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z
C144	254 4213 940	Electrolytic 220µF/6.3V	CE04W0J221M (SRA)	C208	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K
	253 9039 906	Ceramic 0.1µF/25V	CK45=1E104Z	C209	257 0507 992	Ceramic chip 390pF/50V	CC73CH1H391J
C147 C148	255 1264 924	Mylar film 1500pF/50V	CQ93M1H152J (B)	C210	257 0506 951	Ceramic chip 100pF/50V	CC73CH1H101J
	253 9030 976	Ceramic 0.015µF/25V	CK45=1E153K	C212	254 4305 955	Electrolytic 0.68µF/50V	CE04W1HR68M (SRE)
C149	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	C213	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)
C150	257 0012 966	Ceramic chip 1000pF/50V	CK73B1H102K	C214	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z
C151		Ceramic chip 0.01µF/50V	CK73F1H103Z	C215,216	254 4299 906	Electrolytic 10μF/16V	CE04W1C100M (SRE)
C152,153	257 0012 966	Ceramic only 0.01µr/50V	OKTOT TITTOOL		L		

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks	s
C217	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	C300	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z	
C218	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)	C301	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K	
C219	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z	C302	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z	
C220	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)	C303	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K	
C221,222	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z	C304	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z	
C223~226	257 0507 976	Ceramic chip 330pF/50V	CC73CH1H331J	C305	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)
C227	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K	C306	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z	
C228	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z	C307	257 0512 903	Ceramic chip 0.1 µF/25V	CK73F1E104Z	
C229	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z	C308	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z	
C230	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K	C309	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K	
C231	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z	C314	247 2018 903	Carbon chip 0ohm 1/16W	RM73B0R0K	
C232	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)					
C233,234	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z					
C235,236	254 4299 906	Electrolytic 10µF/16V	CE04W1C100M (SRE)	OTUED 5	A DTO OBOU			O'th
C237	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z		ARTS GROU			Q'ty
C238	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	CX051	205 0343 058	5P connector base (KR-PH)		1
C239,240	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z	CX052	205 0321 054	5P connector base (RED)		
C241	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z	CX061	205 0321 067	6P connector base (RED)		1
C242	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K	CX081	205 0395 080	8P connector base (RED) L		
C244,245	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K	CX083	205 0343 087	8P connector base (KR-PH)		
C247	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z	CX271	205 1050 036	27P FFC connector base (9603F)		1
C248	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z					١.
C249,250	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z	FB101~104		Beads inductor		4
C253~255	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z	FB105~107	ł	EMI filter (11A121)		3
C256	254 4538 942	Electrolytic 100µF/16V	CE04W1C101M (SMG/RE3)	FB110	235 0130 903	EMI filter (11A121)		1
C257~258	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)	FB111,112	235 0048 901	EMI filter (103)		2
C259	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z	FB114,115		Beads inductor		2
C260~263	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z	FB116~128		EMI filter (11A121)		11
C264,265	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z	FB129	235 0049 900	Beads inductor		
C267,268	254 4302 974	Electrolytic 100μF/10V	CE04W1A101M (SRE)	FB130,131	235 0130 903	EMI filter (11A121)		2
C269,270	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z	FB132	235 0086 905	EMI filter (101)		
C271	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z	FB133	235 0137 906	Chip EMIFIL (HF50ACC)		'
C272	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z	1404	225 0000 050	Inductor 10µH		4
C273	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z	L101	235 0060 950	Inductor roun		'
C274	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)	TP101	205 0343 061	6P connector base (KR-PH)		1
C275	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K	15101	203 0343 001	or connector base (KH-FFFF)		'
C276~279	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z	X101	399 0262 900	Ceramic resonator	CST 2.288MTW	1
C280	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K	X101	399 0618 004	Crystal 24.57MHz	00112.20011111	1
C281,282	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z	X102	399 0595 004	Crystal 8.4672MHz		1
C283	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z	X100	000 0000 004	Orystal 0.407 Elill 12	ł	
C284	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)					
C285	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z					
C286	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)					
C287	257 0512 903	Ceramic chip 0.1μF/25V	CK73F1E104Z					
C288	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K					
C289,290	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z					
C291	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z					
C292~294	257 0511 904	Ceramic chip 0.01μF/50V	CK73F1H103Z					
C295,296	257 0509 929	Ceramic chip 1000pF/50V	CK73B1H102K	H				
C297,298	257 0511 904	Ceramic chip 0.01µF/50V	CK73F1H103Z					
C299	257 0512 903	Ceramic chip 0.1µF/25V	CK73F1E104Z					
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Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICON	DUCTORS G	ROUP		R709	247 0004 977	Carbon chip 75ohm 1/10W	RM73B750J
IC601	262 2090 904	IC MAX202CSE		R710	247 0014 967	Carbon chip 1Mohm 1/10W	RM73B105J
IC602	262 1711 909	IC X24C00S		R711	247 0004 977	Carbon chip 75ohm 1/10W	RM73B750J
IC603	262 1346 905	IC TC74HC08AF		R713,714	247 0007 903	Carbon chip 680ohm 1/10W	RM73B681J
IC604	262 1647 905	IC MN1382-S		R715,716	247 0008 944	Carbon chip 2.7kohm 1/10W	RM73B272J
IC608,609	263 0809 006	IC NJM7805FA (S)		R717	247 0009 985	Carbon chip 10kohm 1/10W	RM73B103J
IC611~613	263 0809 006	IC NJM7805FA (S)		R718	247 0012 998	Carbon chip 200kohm 1/10W	RM73B204J
IC614	263 0554 005	IC NJM7905FA		R719	244 2051 974	Metal oxide 1kohm 1W	RS14B3A102JNBS (S)
10014	200 0004 000	TO HOME GOOT		R721	247 0004 977	Carbon chip 75ohm 1/10W	RM73B750J
IC701,702	262 1953 903	IC TC7WU04F		R722	247 0014 967	Carbon chip 1Mohm 1/10W	RM73B105J
10/01,702	202 1930 300	10 10/110011		R723	247 0004 977	Carbon chip 75ohm 1/10W	RM73B750J
TR601	272 0083 004	Transistor 2SB1185 (E/F)		R727,728	247 0018 905	Carbon chip 0ohm 1/10W	RM73B0R0K
INOUI	2/2 0083 004	Transistor ZOBTTOO (E1)		R731,732	247 0018 905	Carbon chip 0ohm 1/10W	RM73B0R0K
TR701~704	274 0160 907	Transistor 2SD2144STPU		R741,742	247 0018 905	Carbon chip 0ohm 1/10W	RM73B0R0K
	269 0083 901	Transistor DTA114EK		R744	247 0018 905	Carbon chip 0ohm 1/10W	RM73B0R0K
TR705	269 0083 901	Transistor DTC114EK		R747	247 0018 905	Carbon chip 0ohm 1/10W	RM73B0R0K
TR706		Transistor DTA114EK				'	
TR707	269 0083 901	Transistor DTC114EK		R803,804	247 0005 989	Carbon chip 220ohm 1/10W	RM73B221J
TR708	269 0082 902	Transistor DTCTT4ER		,			
D601	276 0559 909	Diode DAP202K					
D604,605	276 0623 000	Diode D3SBA20			ORS GROUP		Lamenta and the man
D610,611	276 0550 908	Diode 1SR139-200		C601	254 4536 931	Electrolytic 220µF/10V	CE04W1 A221M (SMG/RE3)
D610,611	276 0438 949	Diode MA151WK		C602~605	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
	276 0438 949	Diode MA151WA		C606	254 4536 931	Electrolytic 220µF/10V	CE04W1 A221M (SMG/RE3)
D613	276 0438 949	Diode MA151WK		C607,608	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
D614	276 0438 949	Diode MA151WA		C611	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
D615	276 0438 949	Diode MA151WK		C613	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
D616	276 0438 949	Diode MA151WA		C614	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K
D617	276 0436 907	Diode MATSTAA		C615	254 4538 939	Electrolytic 47μF/16V	CE04W1 C470M (SMG/RE3)
D704 700	276 0432 903	Diode 1SS270A		C616	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
D701,702	276 0432 903	Diode 133270A		C617	254 4535 929	Electrolytic 47µF/63V	CE04\(\)1_J470M (SMG/RE3)
70001	076 0642 067	Zener diode MTZJ4.3A		C618	254 4540 707	Electrolytic 330µF/63V	CE04W1J331M (SMG/RE3)
ZD601	276 0643 967 276 0645 949	Zener diode MTZJ27A		C619~624	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
ZD602	2/6 0645 949	Zerier diode Wi12327A		C626	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
1.0004	000 0540 007	LED SLR-325VC	Red	C627	257 0012 966	Ceramic chip 0.01µF/50V	CK73F 1H103Z
LD801		i e		C629~632	257 0014 935	Ceramic chip 0.1µF/25V	CK73F 1E104Z
LD802,803	393 9453 932	LED SEL1810A	Orange	C634	257 0014 935	Ceramic chip 0.1µF/25V	CK73F 1E104Z
				C635	257 0012 966	Ceramic chip 0.01µF/50V	CK73F 1H103Z
RESISTO	RS GROUP			C637	257 0014 935	Ceramic chip 0.1µF/25V	CK73F 1E104Z
R601,602	247 0009 985	Carbon chip 10kohm 1/10W	RM73B103J	C638	254 4538 955	Electrolytic 220µF/16V	CE04\(\)(C221M (SMG/RE3)
R603	247 0005 905	Carbon chip 100ohm 1/10W	RM73B101J	C639	257 0014 935	Ceramic chip 0.1µF/25V	CK7)F 1E104Z
R606	247 0009 985	Carbon chip 10kohm 1/10W	RM73B103J	C640	254 4536 931	Electrolytic 220µF/10V	CE04\(\)(A221M (SMG/RE3)
R607	247 0005 989	Carbon chip 220ohm 1/10W	RM73B221J	C641	257 0014 935	Ceramic chip 0.1µF/25V	CK7)F 1E104Z
R608	247 0018 905	Carbon chip 0ohm 1/10W	RM73B0R0K	C642	254 4536 931	Electrolytic 220µF/10V	CE04V(A.221M (SMG/RE3)
R609~615	247 0009 985	Carbon chip 10kohm 1/10W	RM73B103J	C643	257 0014 935	Ceramic chip 0.1µF/25V	CK7%F 1E104Z
R617	247 0008 944	Carbon chip 2.7kohm 1/10W	RM73B272J	C644	254 4538 955	Electrolytic 220µF/16V	CE04V(C221M (SMG/RE3)
R621~624	247 0007 945	Carbon chip 1kohm 1/10W	RM73B102J	C645	257 0014 935	Ceramic chip 0.1µF/25V	CK7;F 1E104Z
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				C646	254 4536 931	Electrolytic 220µF/10V	CE04W A 221M (SMG/RE3)
R701,702	247 0007 903	Carbon chip 680ohm 1/10W	RM73B681J	C647	257 0014 935	Ceramic chip 0.1µF/25V	CK7;F 1E104Z
R703,704	247 0008 944	Carbon chip 2.7kohm 1/10W	RM73B272J	C648	254 4536 931	Electrolytic 220µF/10V	CE04V(A 221M (SMG/RE3)
R705	247 0009 985	Carbon chip 10kohm 1/10W	RM73B103J	C649	253 9039 906	Ceramic 0.1µF/25V	CK4⊱ 1E104Z
	247 0012 998	Carbon chip 200kohm 1/10W	RM73B204J	C650	254 4536 931	Electrolytic 220µF/10V	CE04V/A 221M (SMG/RE3)
R706							

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks	Q'ty
C652	254 4536 931	Electrolytic 220µF/10V	CE04W1A221M (SMG/RE3)		ARTS GROU	<u> </u>	Homarka	y
C652 C653,654	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z			1	T	Τ,
C655,054	254 4442 708	Electrolytic 6800µF/16V	CE04W1C682M (SMG)	CW031,032		3P KR-DS connector cord 7P KR-DS connector cord		2
C656	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	CW071	204 2309 042	/P KR-DS connector cord		1
C656 C657	257 0014 933	Electrolytic 6800µF/16V	CE04W1C682M (SMG)	CV004 000	005 0504 004	OD \(()		
C657	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	CX021,022	205 0581 001	2P VH connector base		2
C659	257 0014 933	Electrolytic 2200µF/16V	CE04W1C222M (SMG/RE3)	CX031,032	205 0355 033	3P KR connector base (L)		2
C664	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	CX071	205 0343 074	7P connector base (KR-PH)		1
C665	257 0014 935	Ceramic chip 0.01µF/50V	CK73F1H103Z	CX111	205 1135 003	8P MD connector base (F-S)		1
	257 0012 900	Ceramic chip 0.1µF/25V	CK73F1E104Z	0,4004	005 0504 050	00.1/11		
C668~671	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	CY021	205 0581 056	2P VH connector base		1
C676~681	257 0014 935	Ceramic Grip 0. 1µF725V	CR73F1E1042	CY081,082	205 0321 083	8P connector base (RED)		2
0704 700	057 0000 000	Coromic chin 1000nE/E0V	CK73B1H102K	CY271,272	205 0880 016	27P FFC connector base		2
C701,702	257 0008 983	Ceramic chip 1000pF/50V Electrolytic 220µF/16V	CE04W1C221M (SMG/RE3)					١.
C703	254 4538 955	Ceramic chip 1000pF/50V	CK73B1H102K	FF601~603	202 0040 909	Fuse clip		3
C704	257 0008 983	· ·						
C705	254 4536 931	Electrolytic 220µF/10V	CE04W1A221M (SMG/RE3) CK73F1H102Z	FH601~603	202 0040 909	Fuse clip		3
C706	257 0012 908	Ceramic chip 1000pF/50V	1					
C707	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	JK701,702	204 8553 009	2P pin jack (FG-ANA)		2
C708	254 4254 925	Electrolytic 33µF/16V	CE04W1C330M	JK703,704	204 8406 020	1P pin jack		2
C709	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	JK705,706	204 8421 005	Mini jack		2
C710	257 0012 908	Ceramic chip 1000pF/50V	CK73F1H102Z					
C711,712	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	PT701,702	231 8063 009	Pulse trans.		2
C713	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K					
C715	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	SW801,802		Tact switch		2
C716,717	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	∆ SW851	212 1176 015	Power switch (TV-5)		1
C719,720	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K					
C721	254 4538 955	Electrolytic 220µF/16V	CE04W1C221M (SMG/RE3)	W703	203 0541 003	1P SIN cord Ass'y		1
C722	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K					
C723	254 4536 931	Electrolytic 220µF/10V	CE04W1A221M (SMG/RE3)					
C724	257 0012 908	Ceramic chip 1000pF/50V	CK73F1H102Z					
C725	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z					
C726	254 4254 925	Electrolytic 33µF/16V	CE04W1C330M					
C727	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z					
C728	257 0012 908	Ceramic chip 1000pF/50V	CK73F1H102Z					
C729,730	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z			·		
C731	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K					
C733	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z					
C734~736	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z					
C737	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z					
C738	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z					
C739	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z					
C741,742	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z					
C751	254 4538 955	Electrolytic 220µF/16V	CE04W1C221M (SMG/RE3)					
C752~756	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z					
C759~761	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z					
C762	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z					
C763~766	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z			A		
C801~803	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z					
∆ C851	253 8022 707	Ceramic 0.01 µF/250V (AC)	CK45F2EAC103M					
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GU-3287 REMOTE P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remark	s
SEMICON	DUCTORS (ROUP		C109	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102H	<
IC101	262 2790 00 O	IC MN102L62GAA		C110	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	7
IC103	262 2090 904	IC MAX202CSE		C111	254 4533 918	Electrolytic 47µF/6.3V	CE04W0J470M	(SMG
IC104	262 2452 908	IC MN1382-R		C112	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	7
				C113	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102H	<
IC201	262 2459 008	IC MN12510F		C115~118	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	7
				C119~123	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	7
IC301	262 2459 008	IC MN12510F		C124	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	7
				C126	254 4522 954	Electrolytic 47µF/35V	CE04W1V470M	(SMG
D101	276 0438 91 O	Diode MA151A		C128	254 4538 939	Electrolytic 47µF/16V	CE04W1C470M	(SMG
				C133	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	7
D201~204	276 0438 91 0	Diode MA151A		C134	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102H	(
D301~304	276 0438 910	Diode MA151A		C201,202	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H1032	<u> </u>
				C203	257 1015 920	Ceramic chip 0.1µF/50V	CK73F1H104Z	<u>.</u>
LD201	393 9543 907	LED SLR-325VC	Red	C204	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	<u>'</u>
LD202,203	393 9543 910	LED SLR-325MC	Green	C205	257 2002 961	Tantalum E. 47pF/7V	CS77B470M	
				C206	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	-
LD301	393 9543 907	LED SLR-325VC	Red	C207	257 0002 921	Ceramic chip 10 pF/50V	CC73SL1H100	D
LD302,303	393 9543 910	LED SLR-325MC	Green	C208	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	<u>'</u>
				C209	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102k	(
FL201	393 8032 008	FLT (10-MT-109GK)		C215,216	257 0003 933	Ceramic chip 30pF/50V	CC73SL1H300)J
				C221~223	257 0003 988	Ceramic chip 47pF/50V	CC73SL1H470	IJ
FL301	393 8032 008	FLT (10-MT-109GK)		C201 202	057 0010 066	Coromio chia 0.01E/50V	CV70E4114007	,
				C301,302 C303	257 0012 966 257 1015 920	Ceramic chip 0.01µF/50V Ceramic chip 0.1µF/50V	CK73F1H103Z CK73F1H104Z	
RESISTO	RS GROUP			C304	257 1013 920	Ceramic chip 0.1µF/25V	CK73F1H104Z	
R101	247 0018 905	Carbon chip 0ohm 1/10W	RM73B0R0K	C305	257 2002 961	Tantalum E. 47pF/7V	CS77B470M	
R102	247 0005 989	Carbon chip 220ohm 1/10W	RM73B221J	C307	257 0002 921	Ceramic chip 10 pF/50V	CC73SL1H100	
R103	247 0003 949	Carbon chip 22ohm 1/10W	RM73B220J	C308	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	
R105~128	247 0009 985	Carbon chip 10kohm 1/10W	RM73B103J	C309	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K	
R188	247 0007 958	Carbon chip 1.1kohm 1/10W	RM73B112J	C321~323	257 0003 988	Ceramic chip 47pF/50V	CC73SL1H470	
R201~203	247 0006 946	Carbon chip 390ohm 1/10W	RM73B391J					T
R204~212	247 0012 927	Carbon chip 100kohm 1/10W	RM73B104J		ARTS GROU			Q't
R213	247 0003 949	Carbon chip 22ohm 1/10W	RM73B220J	CX111		8P MD base (F-S)		1
R214~218	247 0018 905	Carbon chip 0ohm 1/10W	RM73B0R0K	CX181,182	205 0850 033	18P connector base (BTMK-P)		2
R301~303	247 0006 946	Carbon chip 390ohm 1/10W	RM73B391J	CY181,182	205 0849 031	18P connector base (BTMK-S)		2
R304~312	247 0012 927	Carbon chip 100kohm 1/10W	RM73B104J					
R313~316	247 0018 905	Carbon chip 0ohm 1/10W	RM73B0R0K	FB101~103	235 0049 900	Beads inductor		3
			·	FB106,107	235 0049 900	Beads inductor		2
VR201	211 0908 003	Slide volume		FB108	235 0130 903	EMI filter (11A121)		1
				FB109	235 0049 900	Beads inductor		1
VR301	211 0908 003	Slide volume		FB201	235 0130 903	EMI filter (11A121)		1
				FB301	235 0130 903	EMI filter (11A121)		1
CAPACIT	ORS GROUP			S201~211	212 5604 907	Tact switch		11
C103		Ceramic chip 0.1µF/25V	CK73F1E104Z	S212	212 0402 104	Jog-shuttle		1
C104	257 0008 983	Ceramic chip 1000pF/50V	CK73B1H102K	S213,214	212 5604 907	Tact switch		2
C105	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	S301~311	212 5604 907	Tact switch		11
C106		Electrolytic 47μF/16V	CE04W1C470M (SMG)	S312	212 0402 104	Jog-shuttle		1
C107,108	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	S313,314	212 5604 907	Tact switch		2

Ref. No.	Part No.	Part Name	Remarks	Q'ty
X101	1	Ceramic resonator	CST12.288MTW	
X201	399 0041 901	Ceramic resonator	CSA4.00MG	1
	461 0984 017	FL spacer		2
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Note: The symbols in the column 'Remarks' indicate the following destinations.

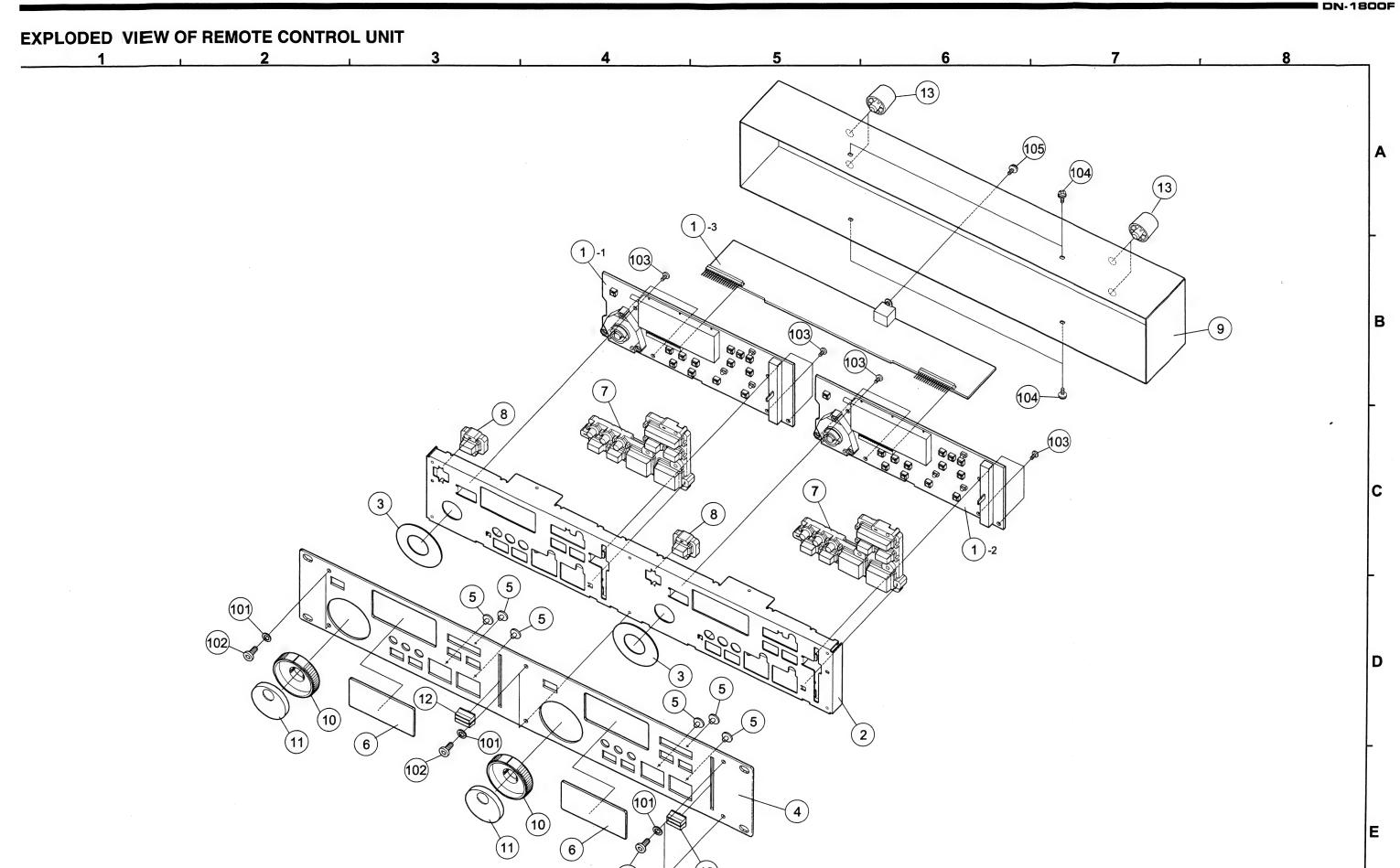
E3: U.S.A/Canada model EK: U.K. model

Ref. N	lo.	Part No.	Part Name	Remarks	Q'ty		Ref. N	lo.	Part No.	Part Name	Remarks	Q't
NOI. N	1	GU-3278	Main P.W.B. unit Ass'y		2		*	47	513 2521 009	CE label	for E2/EK	1
	_2	GU-3226A	Power P.W.B. unit Ass'y		1		*	48	513 3160 100	E3 label	for E3	1
_	-2-1	GO 02201	Power unit				*	49	513 0985 003	Inst. label	for E2/EK	1
	2-2		P. SW. unit				*	50	513 3384 009	C-UL mark US (813)	for E3	1
4	2-3		OP/CL SW. unit				*	51	513 3253 004	C-TICK label	for E2/EK	1
	- 2-4		LED unit			I	*	52		FCC/class B caution	for E3	1
	3	411 1923 001	Chassis		1			53	412 4619 001		for E3	4
	4	461 0706 127	Foot sheet		2	1						
		513 3175 001			2	Ш						
	6		Trans. bracket		1	_						
	7		CD mecha. unit (CD93F8)		2	IL	SCR	EWS	& NUTS			
	8		Mecha. bracket		2	II		101	471 3303 029	Screw 3×6 CBS-B		- (
			Card spacer (L=14.8)		5	II		102	471 9050 020	Screw 3×6 FHHS MFZNII-B		1
	9	105 1324 226			1	[]		103	473 7002 005	Screw 3×6 CBTS (S)-Z		1
A	12	445 0084 009		for E3	1	II		104	473 7004 003	Screw 4×8 CBTS (S)-Z		1
Δ	13	445 0056 008		for E2/EK	i	II		105	473 7005 057	Screw 3×25 CBTS (S)-Z		'
ħ.			Front sub panel	ni ran	1	11		107	473 7015 018	Screw 3×8 CBTS (S)-B		2
	16	415 0831 109	· ·		2	II		108	473 7508 017	Screw 3×10 CBTS (P)-B		
	17				1	Ш		109	475 1178 009	Washer 3W-B		1
	18	144 2683 013	,		1			110	477 0263 005	3P. swelling screw		
	19	146 1371 005			1							
	20		Power SW. protector		1	1						
	21		Rubber key (B)		2							
	22	461 0740 002			1							
	23	113 1357 207			i .							
	24		Loader panel		2							
40000	25	102 0425 253				Ш						ł
Δ λ	26	233 6323 006			1							
Δ.	27		AC cord with connector E3			II ·						
Δ.	27		AC cord with connector E2			Ш						
Δ.	27	•	AC cord with connector EK		1							
A	28	206 1039 005		F601, for E3	1 1							
Δ.	28	206 1015 045		F601, for E2/EK	2							
<u> </u>	29	206 1039 076		F602/603, for E3								ı
Δ.	29	206 1015 032	or the contract of the contrac	F602/603, for E2/EK	************							
*		445 8028 009			1	ll						
*			Wire clamp band	CYCE1 to Macha	2	II						
*			5P PH-PH connector cord	CX051 to Mecha.	2	Ш						
*		1	8P PH-PH connector cord	CX083 to Mecha.	2	11						
*			6P connector cord (Red)	CX061 to Mecha.	2	ll						
*		1	5P PH-PH connector cord (Red)		2	II						
*		009 0133 042		CX271 to CY271	2	11						
*			8P PH-PH connector cord	CX081 to CY081	2	11						
*		1	3P VH connector cord	CX021 to CY021	1	11						
*			E2 laser caution	for E2	2	II						
*			Fuse label (E3)	for F601, for E3	1	H						
*		513 3402 033		for F601, for E2/EK	1	II						ĺ
*			Fuse label (E3)	for F602/603, for E3	1	11						
*		513 3402 046		for F602/603, for E2/Ek		11						
*		1	Fuse caution label	for E3	1							
*			Rating sheet	for E3	1							
*		1	Rating sheet	for E2/EK	1							
*		513 2303 007			1							
*	45	513 2728 006			1	[]						-
*	46	513 1519 009	Manufacture date label	for E3	1	Ш			1			

PARTS LIST OF RC-47 REMOTE CONTROL UNIT

DN-1800F

PARIS	LISI C	T NO-47 NEI	NOTE CO	IAI
Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	GU-3287	Remote P.W.B. unit Ass'y		1
<u></u> _1-1		Display1 unit		
1-2		Display2 unit		
L ₁₋₃		CPU unit		
2	441 1859 105	RC front sub panel		1
3	122 0229 107	Blind sheet		2
4	144 2597 015	RC front panel		1
5	146 1371 005	LED Window		6
6	146 2068 100	Window		2
7	119 0095 005			2
8	119 0096 004			2
9	105 1276 002			1
10	112 0815 006			2
11	112 0816 018			2
12	113 1840 109			2
13	104 0270 006			4
★ 14	513 3349 112	Caution label		1
		·		
SCREWS	& NUTS		L	
101	475 1178 009	Washer 3W-B		6
102	471 9050 020			6
103	473 7002 005			12
104	471 8010 113			4
105	471 1832 000	-		1
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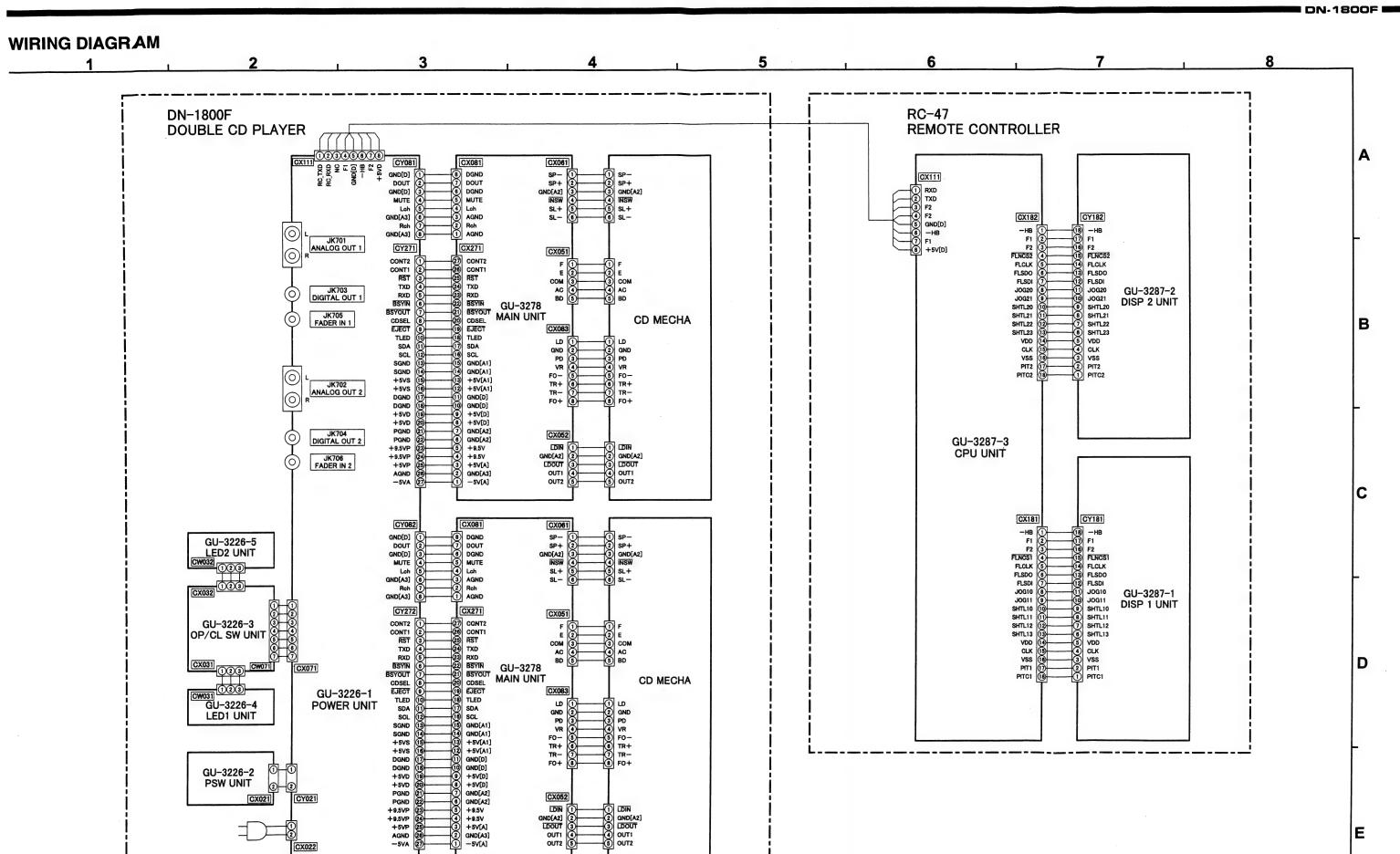


PARTS LIST OF MECHANISM UNIT (CD93F8)

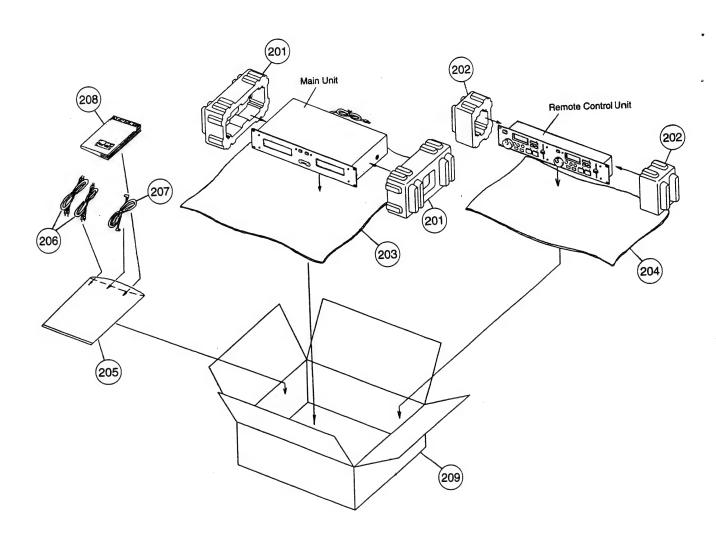
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q't
	Mechanism				201	964 0007 011	Motor chassis Ass'y		1
1		PCB switch Ass'y		1	202	964 0007 105	Motor Ass'y		1
₋₁₋₁	964 0003 507		SW01	1	20	964 0006 009			2
1-2	964 0003 40O		SW02	1	21	964 0006 106	Screw 1.7 x 2.5		4
3		Frame chassis	0.1102	1	22	964 0006 203			4
	964 0001 101			1			'		
4		Rail left Ass'y			Ì				
5	964 0001 303			11					
6		Chassis stopper		1					
7		Magnet support		1					
8		Rubber cushion (Blue)		2					İ
9	1	Rubber cushion (Purple)		2					
10				1					1
11		Magnet holder							
12	964 0002 003			1					
13		Loading gear		1 1					
14	964 0002 207			1					
15	964 0002 304			1					Ì
16	964 0002 401			1					
17	964 0002 508			1					
18	964 0002 605			1					
19	964 0002 702	1		1					
20	1	Disk clamp magnet		1					
21	964 0002 906	Lifter mecha		1					
22	964 0003 002	Slide lifter		1					
23	964 0003 109	Table loading		1					
24	964 0003 206	Motor, 3.0V, 0.3W		1	·				
101	964 0003 303	Loading moter Ass'y		1					
102	964 0005 013	Traverse unit		1					
30	944 0025 219	Screw 3 x 8		1					
31	944 0056 013	Screw 2.6 x 8		4					
32	944 0048 384	Screw 2 x 6		2					
33	964 0004 001	Screw 1.7 x 3.5		2					
34	964 0004 108	Special screw		1					
35	964 0004 205	Screw 3 x 8		1					
36		Screw 2.6 x 8		1					
Traverse	Section								
1	964 0005 107			1					
2	-	Chassis Ass'y		1					
3	_	Turntable Ass'y		1					
4	964 0005 204			1					
5	964 0005 301	Middle gear		1					1
6	964 0005 408	Motor gear		1					
7	964 0005 505	Power gear		1					
8	964 0005 602	Rack plate		1					
9	964 0005 709	PCB morter		1					
10	_	Motor, 2.0V,0.2W (Spindle Motor)		1					
11		Motor, 3.0V,0.3W (Sled Moter)		1					
12	964 0005 806			1					
13	964 0005 903			1				1	

MAIN PWB UNIT 2 <GU-3278>

CD MECHA UNIT 2 (CD93F8)



PACKING & ACCESSORIES



PARTS LIST OF PACKING & ACCESSORIES

Note: The symbols in the column "Remarks" indicatethe following destinations.

E3: U.S.A./Canada model

EI: U.K. model

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
201	503 1001 400	Cushion	for main unit	2	207	204 2750 002	8P MD connector cord (L)		1
202	503 1010 307	Cushion (RC)	for remote control unit	2	208	511 3584 007	Instruction manual		1
203	505 0102 092	Stylen paper	for main unit	1	209	501 1982 099	Carton case		1
204	505 0102 021	Stylen paper	for remote control unit	1	★ 210	513 3348 113	Caution label (Cord)		1
205	505 0038 030	Poly. cover		1	★ 211	513 2303 007	Version label		2
206	203 2360 004	2P pin cord		2	★ 212	515 0692 101	DEL warranty com.	for E3	1

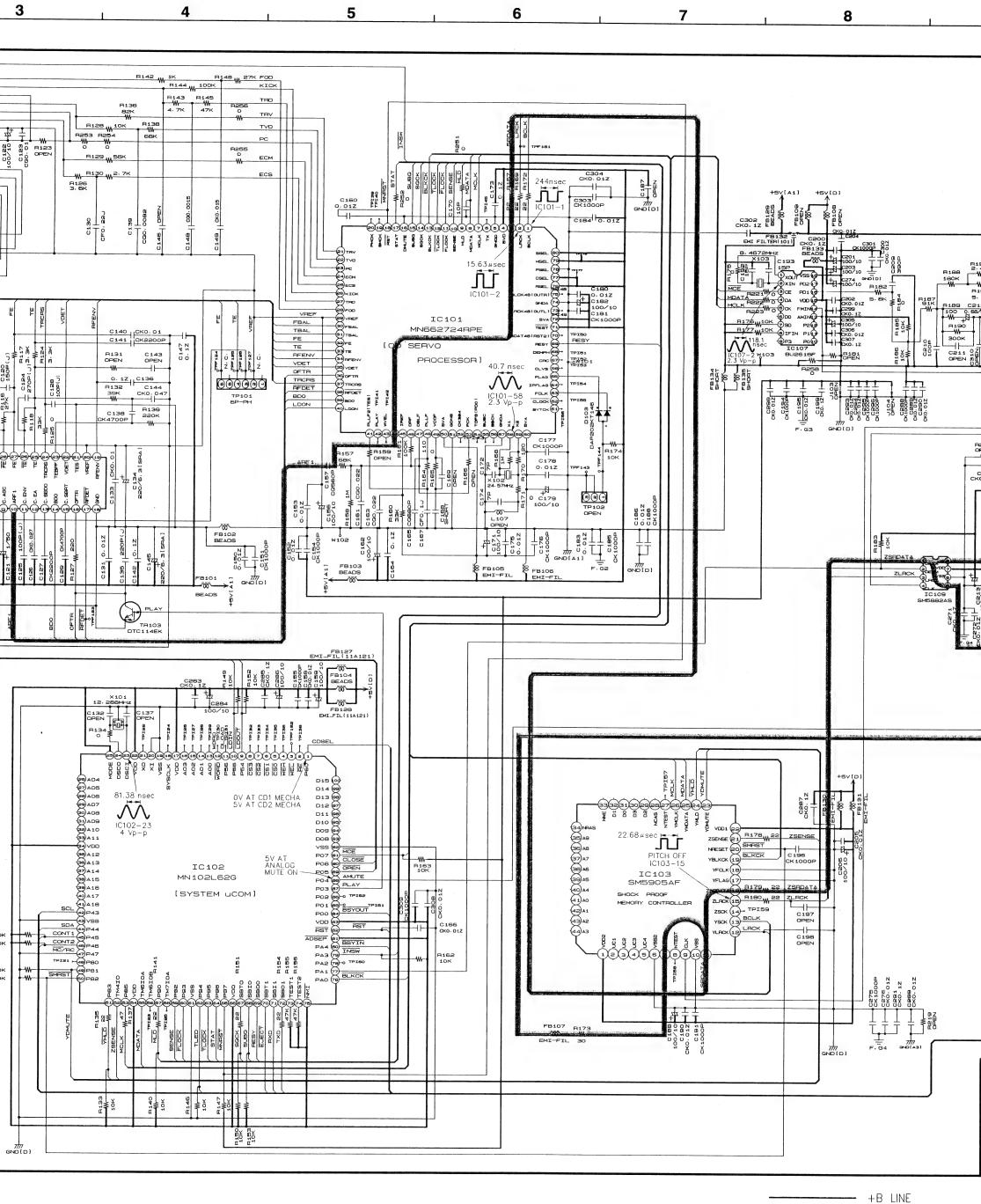
A996 -W-100 A997 -W-100

R998 -₩- 100 R999 -₩- 100 8133 10k

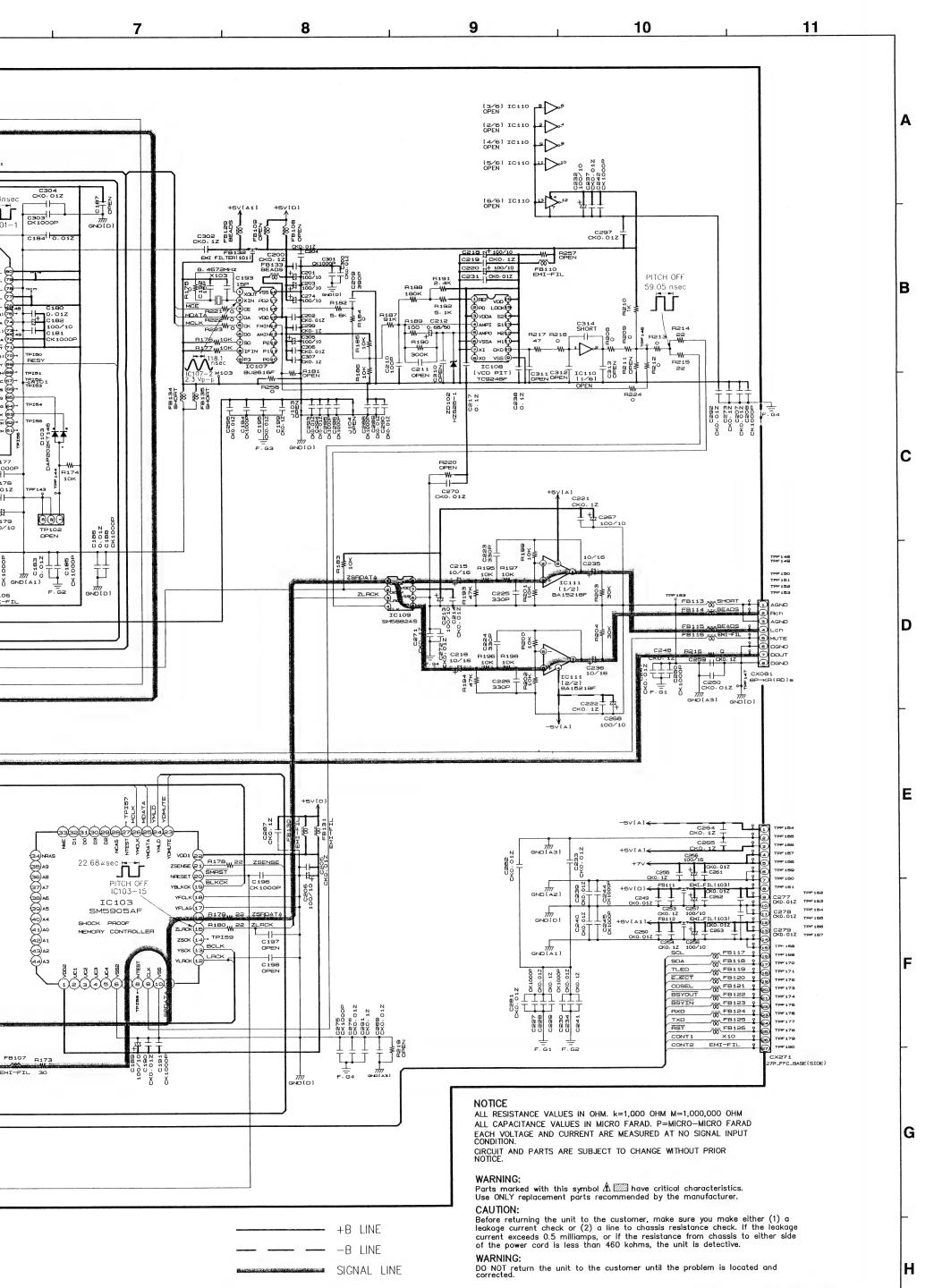
GND [D]

7,40 10,40 10,4 # 10K

> 1550 1550 1550 1550 1550

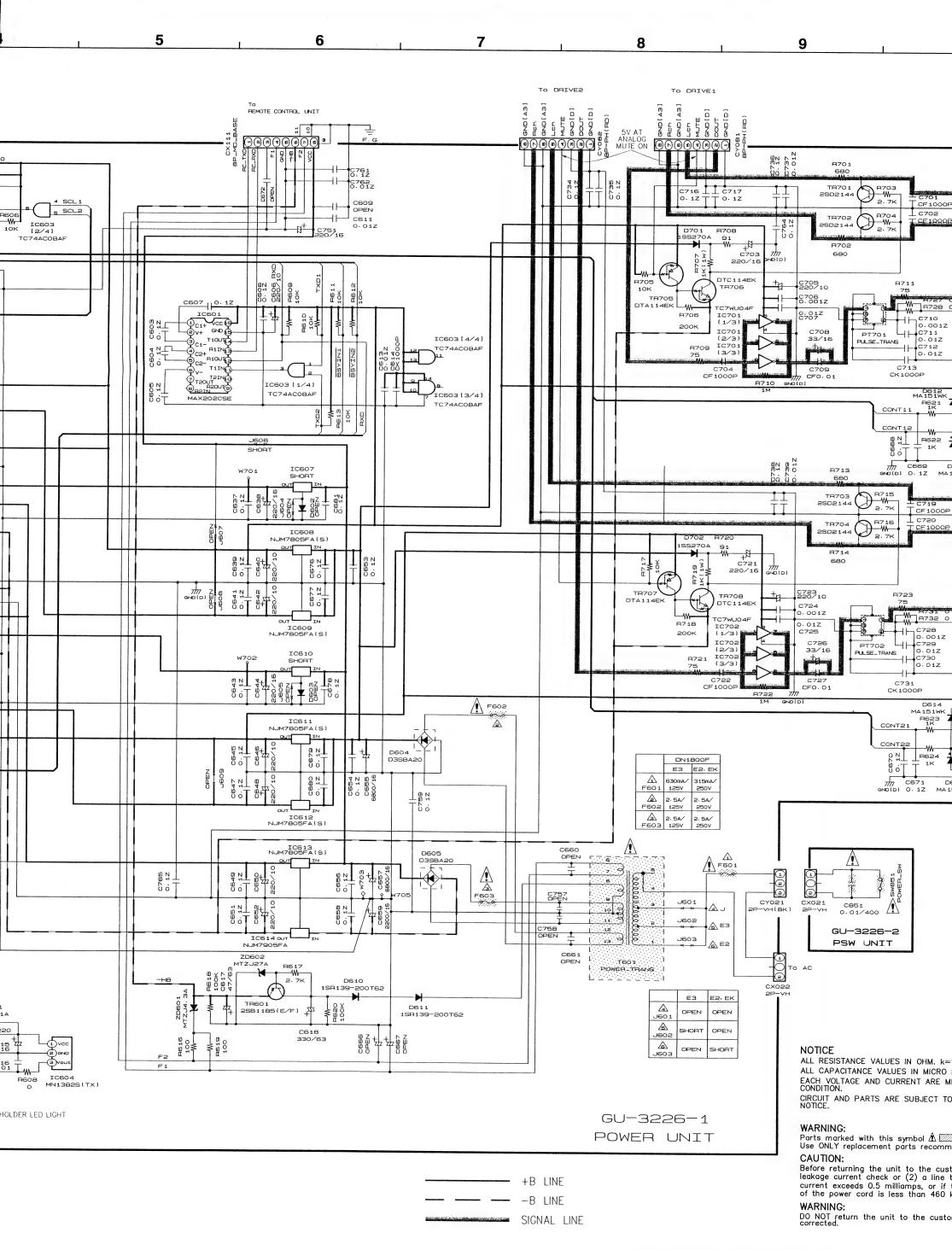


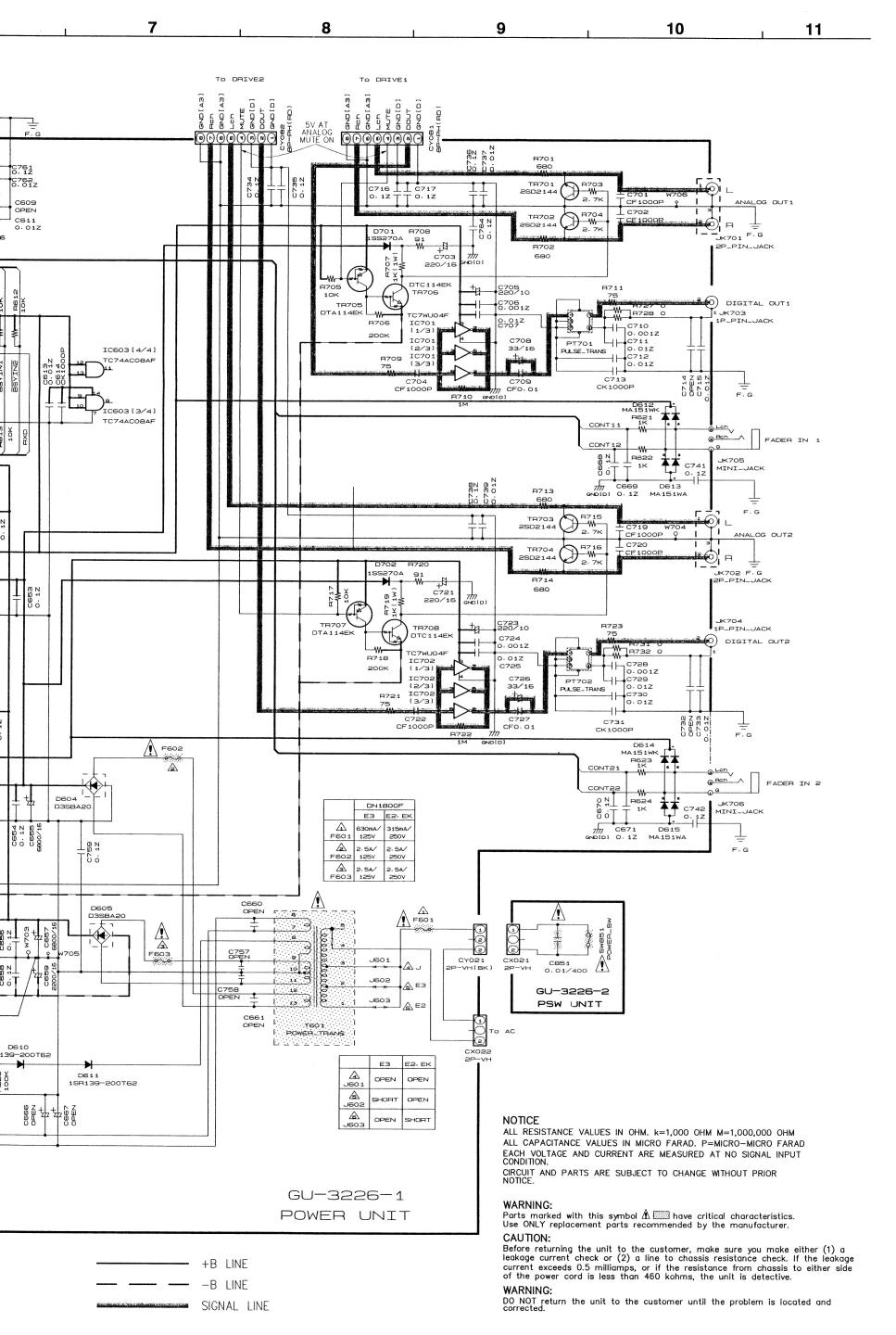
— — — — B LINE
SIGNAL LINE



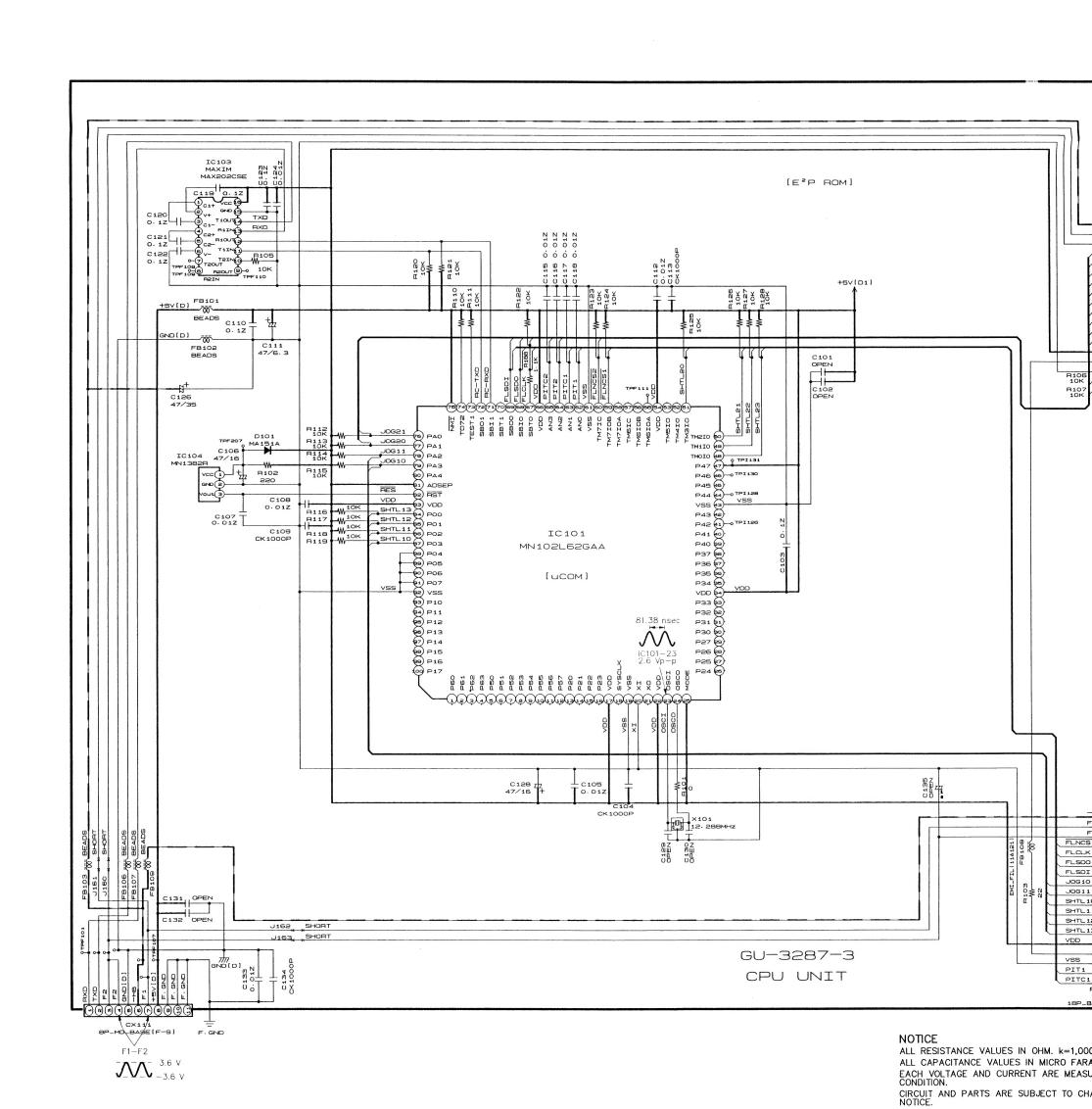
DN-1800F

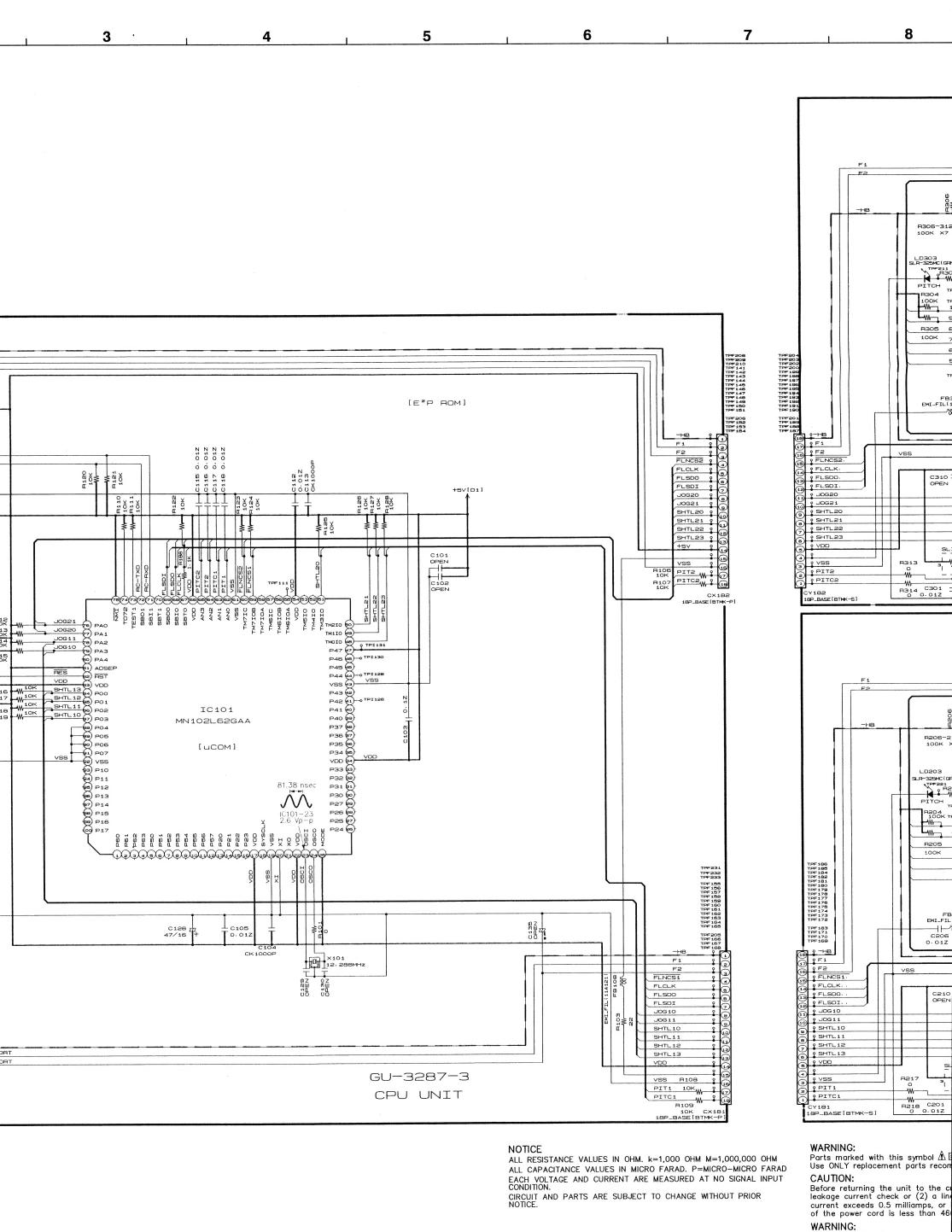
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DO NOT return the unit to the custorrected.

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Α LD301 SLR-325VC(RED) R306-312 100K X7 LD302 SLA-325MC(GRN) P3. SEG2 (33) P3. SEG1 (32) P2. P2. ₽1. В SEGO(31) P301 P34(30) 390 W S313 S314 P33(29) H302 W P32(29) 390 KEYIN2 TPF213 IC301 L_W s_G. 6 P00 P31 27 KEYIN1 R305 8G. /CONT (7) DGT7 /PAUSE P30(26) REYINO
P316 FLSDO.
SDO(29) W FLSDI.
SDI(24) FLCLK. KEYINO 250 nsec B) DGT6 S302 S305 S308 S310 So -9 DGT5 TIME BEND+ CUE BEND-IC301-19 5 8303 E S306 S309 S311 ---PRESET TRACK- TRACK+ C 9 F 1 F1 C303 L 0.1/50 T FLNCS2 0 VSS FLCLK 9 9 FLCLK S312 JOG SHUTTLE FLSDO. FLSDO 9 FLSDI FLSDI 9 JOG20 70050 J O JOG21 J0G21 SHTL20 9 § SHTL21 SHTL21 0 SHTL22 9 9 SHTL22 SHTL23 SHTL23 SLIDE VOL 9 VDD -W- + W-11 y vss GU-3287-2 PIT2 W PIT2 PITCE W 17 PITCE DISP2 UNIT R314 C301 O 0.01Z . CY182 18P_BASE[BTMK-S] CX 182 18P_BASE [BTMK-P] D 100K X7 _D201 SLR-325VC(RED) E РЗ SEG1 32 P2 SEG1(32)
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SEG0(31)
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P3 11G 100K TF1252 4 PO2 10G 5 PO1 IC201 9G -(6) P00 -(7) DGT7 P31(27) KEYIN1 PLAY /PAUSE 100K 7G /CONT 250 nsec 10201-19 KEYINO P30 26 REYINO

R215 FLSDO.

SDO(25) W FLSDI. S202 -В рете 9205 S208 S210 TPF 186
TPF 185
TPF 184
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TPF 178
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TPF 172 -9 DGT5 -(10) DGT4 CUE 0 SCK 23 FLCLK. TIME BEND+ BEND-NC 11 NC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201-19 | SC | C201 S209 F 0 0 0 0 OPEN PRESET TRACK- TRACK+ TPF 183 TPF 171 TPF 170 TPF 169 C222 47P TPF 205 TPF 166 TPF 167 TPF 168 C206 9 FLNCS1 FLNCS1 9 FLCLK JOG SHUTTLE FLCLK OPEN C211 FLSDO FLSDO g FLSDI.. FLSDI 9 JOG 10 J0G10 9 JOG11 JOG 1 1 SHTL10 9 SHTL 10 9 SHTL11 SHTL11 SHTL12 9 SHTL12 9 SHTL13 SHTL13 9 VDD SLIDE VOL. vss R108 y vss G GU-3287-1 9 PIT1 PIT1 10K PITC1 R109 W PITC1 DISP1 UNIT W R218 C201 O 0.01Z CY181 BP_BASE[BTMK-S] - +B LINE WARNING: Parts marked with this symbol $\hat{\Lambda}$ \boxtimes have critical characteristics. Use ONLY replacement parts recommended by the manufacturer. OHM. k=1,000 OHM M=1,000,000 OHM -B LINE IN MICRO FARAD. P=MICRO-MICRO FARAD NT ARE MEASURED AT NO SIGNAL INPUT CAUTION: Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective. JBJECT TO CHANGE WITHOUT PRIOR

DO NOT return the unit to the customer until the problem is located and corrected.

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SCHEMATIC DIAGRAMS (3/3) GU-3287 REMOTE UNIT

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